



# Application Manual

NEOGARD Flooring Systems • 2011 (English Version) • Volume 1



# NEOGARD Flooring Systems

NEOGARD has developed user friendly flooring systems with proven performance. This manual is intended as a guideline for application of these flooring systems. Any questions related to its content should be directed to the NEOGARD Technical Services Department.

To understand the application of floor coating systems, one should look at the typical conditions a floor is exposed to and the wants and needs of the owner occupying that particular floor space. Some of the conditions are:

- Traffic
- Abrasion
- Impact
- Load
- Light Reflectivity
- Liquid Exposure
- Chemical Attack
- Low Maintenance Window
- Slip Considerations
- Aesthetics Requirements
- Static Dissipation
- Clean-ability

A Flooring System **is considered a sacrificial but sustainable element**, so when a high performance flooring system is installed, one can extend the working life of that floor. The benefits of extending the working life are obvious and include lowering overall repair costs, labor costs, and indirect costs related to having the floor space useable with minimum disruption.



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# Definitions

## Terminology

- Mil One thousand of an inch (0.001")
- WFT Wet film thickness; is the measured thickness of a system while resin is wet.
- DFT Dry film thickness; is the measured thickness of a system when resin is dry.

DFT	TYPE
3 - 8 mils	Sealer
12 - 40 mils	Thin Application
50 - 250 mils and up	Mortar

## Mortar

It does involve the use of an aggregate, mixed and or broadcasted.

- Broadcast: Neat resin over the substrate and the aggregate is broadcast into it while it still wet.
- Slurry: Very fine aggregate (the size of flour) is mixed with the resin to a self-level consistency, typically a 1:1 mixing ratio.
- Trowel: A blend of medium to fine aggregate mixed with the resin to create a paste consistency that can be trowel, typically a 4 or 5:1 mixing ratio.

## Why Protect a Concrete Floor?

There are many conditions affecting the life and integrity of a concrete floor, some are:

- Wear: Uncoated concrete wears out 75% faster than coated ones.
- Brittle: Concrete is not resilient and tends to break easily with impacts. Specific Flooring Systems can take better mechanical abuse than unprotected floors.
- Porous: Concrete can absorb liquids (chemicals) causing severe effects to a point of total removal of the existing concrete. Protected floors with designed systems will extend their life.



# General Considerations

## 1. Construction Practices

- Concrete must have minimum compression strength of 3,500 psi (250kg/cm<sup>2</sup>).
- Concrete must be clean and dry.
- Concrete must have a minimum cure time of 28 days prior to flooring system application, otherwise call NEOGARD.
- Concrete must be free of contaminants.
- Floor temperature must be above 60°F (15°C) and rising.
- Current conditions must be evaluated.
- Moisture drive of concrete not to exceed 4 lbs per 1,000 square feet per 24 hours. Run Calcium chloride test to determine moisture drive.

## 2. Finish Requirements

- Slabs must be steel power or hand trowel. Rough surfaces may require additional surface prep and/or more material. Consult NEOGARD.
- Water curing is the preferred method. Curing compounds will require additional surface prep procedures. Consult NEOGARD.
- Surface must be clean, sound and dry prior the installation of a NEOGARD Flooring System.
- Surfaces contaminated with oil or grease shall be vigorously scrubbed with a power scrubber and a strong, non-sudsing detergent. Thoroughly wash, clean and dry area to receive flooring system. Areas where oil or other contaminates have penetrated deeply into the concrete substrate may require removal by mechanical methods.



# Surface Preparation

## Concrete - New or Existing

### 1. General Information

- **Surface preparation is the single most important aspect of insuring the chosen floor system will perform as it is designed.** It;
  - Removes weak laitance layer
  - Removes contaminants
  - **Provides proper profile for mechanical bond**

### 2. Finish Profile Requirements

- **Regardless any concrete surface profile, a flooring system bond relies in a mechanical anchor on which the concrete surface laitance must be removed and a minimum 50 grid sandpaper texture/profile should achieved over sound substrate.**

### 3. Methods for Preparing Concrete

#### Shot Blast

- **Preferred method** for providing a proper surface profile and cleaning, to remove laitance from concrete surfaces.
- Shot blasting does not remove deep contamination of oils, grease, tar, asphalt stains, etc.
- Be careful that you do not over blast the substrate. Improper or an aggressive shot blasting can create an over-porous concrete surface, which can result in blisters or bubble related problems during the application of the NEOGARD Flooring System.
- A minimum of 24 mils will be required to smooth back the surface. Thin film systems will need a light smoothing of the surface by diamond grinding.

#### Acid Etching

- This is an alternative method for the removal of the laitance from concrete surface. **Good method for thin applications.**
- The workers should use protective eyewear, respirators, rubber boots and rubber gloves. If acid solution contacts skin, rinse affected area immediately with large amounts of clean water.
- Use hydrochloric acid 20° baume with water. Acid-Water mix ratio of 1:2 parts by volume is the recommended solution strength. **Always pour the acid into the water; never pour water into the acid.**
- If the acid solution does not foam there maybe a curing compound or other contaminate present.
- Do not allow acid solution to dry on the concrete substrate.
- Acid will not remove oil, grease, curing or sealing compounds, paints, and heavy dust or dirt accumulation. These contaminates must be removed before etching. See page 5 for procedure @ Finish Requirements.

#### Scarification

- Scarifying is a recommended preparation method for removal of existing coatings, oils, grease, sealers and other contaminates that resist removal by shot blasting or acid etching.

# Surface Preparation

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- Scarifying a concrete substrate will provide a proper profile for maximum adhesion of the coating to the concrete substrate.
- The correct depth setting to achieve the proper profile of the concrete substrate is indicated by relatively little vibration of the scarifier. If this is set too deep and over etches the concrete, it can result in blistering problems during the application of the floor coating system.

## Grinding

- Diamond pads @ 24 – 36 grid can be use in combination with **slow speed** grinders.
- This is an alternative method for the removal of the laitance from concrete surface. It is a Good method for thin applications.
- After the floor is ground, broom and vacuum the floor.
- Be sure to remove all dust and concrete residue after grinding.
- **Must provide a 50 grid sandpaper texture!**

## 4. Patching and Crack Detail

- For minor patches and cracks up to  $\frac{3}{4}$ " width and  $\frac{1}{2}$ " depth, use P1934 fumed silica and 100% clear epoxy 70714/70715-09 or 707014/70715 mixed at a ratio of 3:1 by volume.
- For major patches and cracks (greater than  $\frac{3}{4}$ " width and  $\frac{1}{2}$ " depth) use 86364 aggregate and 100% clear epoxy 70714/70715-09 or 707014/70715 mixed at a ratio of 4:1 by volume.
- For resurface patching mix 100% clear epoxy 70714/70715-09 or 707014/70715 with silica flour at 1 to 1 ratio by volume to a slurry consistency and broadcast, till refusal, silica sand 86364 or 7992. You can also use direct 70702/70703 100% solids epoxy resurfacer.
- Fill to adjacent level. Always patch after surface preparation.



# Basic Components of a Flooring System

## Five Basic Components and One Accessory

1. Patching Compound
  - Non-shrink 100% solids resin
  - In accordance with the system (Chemical, Mechanical)
  - Wetting capability
  - Smaller patch = Finer aggregate
  - Larger patch = Bigger aggregate
2. Primer
  - Surface penetration
  - All our clear epoxies
  - Wetting capability
  - Reduce out-gassing
3. Base Coat
  - Support of the system
  - Thin or thick
  - Clear or colored resin
  - Wetting capability
4. Matrix Resin
  - Binding resin to hold aggregate
  - Wetting capability
  - In accordance with the system (Chemical, Mechanical)
  - Silica flour
  - Silica sand
  - Metals...Aluminum Oxide
5. Topcoat
  - Related with texture
  - In accordance with the system
  - Clean-ability
  - Wetting capability

## Accessory

1. Joint Filler
  - Hybrid Epoxy-Urethane
  - Remain flexible
  - Wetting capability
  - Supported by a backer rod
  - $\frac{3}{4}$ " depth...





# Flooring Products

## Product Description

Product	Type	Description	Colors	Uses	Comments
7779/7781	Epoxy	30% water base epoxy	Clear	Floor Sealer, Pre-Primer for out-gassing or over-porous conditions	Fast Curing, great alternative for chemical hardeners
70702/70703	Epoxy	100% solids epoxy resin	Std Gray	Resurface Conditioner, Patching Resin	Economical & General Use Epoxy <b>(MUST BE TOP COATED)</b>
70714/70715-09	Epoxy	100% solids epoxy resin	01 White 02 Gray 03 Tan 04 Dk. Gray 05 Tile Red 06 Green 11 Lt Gray 16 Black Clear	Primer, Base Coat, Intermediate coat, Topcoat, Matrix Resin, Patching Resin	Medium Chemical Resistance, General Use, Economical
70714/70715	Epoxy	100% solids epoxy resin	01 White 02 Gray 03 Tan 04 Dk. Gray 05 Tile Red 06 Green 11 Lt Gray 16 Black Clear	Primer, Base Coat, Intermediate coat, Topcoat, Matrix Resin, Patching Resin	High Performance Epoxy, Most used resin in Neogard Flooring Line, High Chemical Resistance
70724/70715	Epoxy	100% solids epoxy resin	02 Gray 11 Lt Gray	Base Coat, Intermediate coat	High Performance Epoxy, a Non-Sag version (vertical) for 70714/70715, High Chemical Resistance
70744/70715	Epoxy	81% solids epoxy and conductive elements, static dissipation, high resistance to impact and chemicals	02 Gray	Topcoat	Static Dissipation, High Chemical Resistance. Electronics manufacturing, data processing areas, aerospace and military facilities, static sensitive equipment, operations rooms
70704/70705	Novolac-Epoxy	100% solids novolac-epoxy resin	02 Gray 05 Tile Red	Base Coat, Intermediate coat, Top Coat, Matrix Resin	Outstanding Chemical Resistance, excellent on Thermal Shock conditions
70734/70735	Epoxy	100% solids epoxy resin	Clear	Primer, Base Coat, Intermediate coat, Topcoat	Crystal Clear, low UV sensitive Epoxy, Good Chemical Resistance
70718/70719	Epoxy-Urethane	99% solids hybrid epoxy-urethane resin	02 Gray	Joint Filler, Base Coat, Topcoat	Flexible Epoxy Resin for saw cut joints or as a flexible coating
Deco-Glaze	Acrylic-Epoxy	45% solids emulsion, high gloss coating	Tintable	Topcoat	As topcoat for vertical applications at no high chemical exposure conditions
70805/7952	Aliphatic Polyurethane	62.5% Solids Polyurethane resin	Tintable	Topcoat	Superior Chemical Resistance (Skydrol Resistant), UV stable, high abrasion resistant
70815/70816	Aliphatic Polyurethane	89% Solids Polyurethane resin	Clear	Topcoat	Ultra High Solids & Superior Chemical Resistance (Skydrol Resistant), UV stable, high abrasion resistant. VOC Compliant
Acrylithane HS2	Aliphatic Acrylic-Polyurethane	62.5% Solids Acrylic-Polyurethane resin	Tintable	Topcoat	Good Chemical Resistance, UV stable, high abrasion resistant
70800/70801 70802 T 70703 V 70704 SL	Polyurethane	Water disperse, cement base polyurethane resin	02 Gray 05 Tile Red 31 Desert	Matrix Resin	Fast Curing, High Thermal Shock and Chemical Resistance. Food applications
70860/70865 HB 70861/70865 SG	Polyurea-Polyurethane	83% solids polyurea resin	Clear High Gloss or Semi Gloss	Topcoat	UV Stable, Crystal clear, high abrasion and scratch resistance, high chemical resistance environments. Fast Curing

# Flooring Products

Product Use (Refer to page 9 for characteristics and properties)

Primer	Description	Type
7779/7781	Clear water base epoxy pre-primer	Epoxy
70714/70715-09	Clear version, 100% solids general use epoxy	Epoxy
70714/70715	Clear version, 100% solids epoxy	Epoxy
70734/70735	Clear version, 100% solids epoxy. (Expensive as primer)	Epoxy
Patching Compound	Description	Type
70702/70703	Grey, 100% solids epoxy as resurfacer for wore substrates	Epoxy
70714/70715-09	Clear version, 100% solids general use epoxy	Epoxy
70714/70715	Clear version, 100% solids epoxy	Epoxy
PF1934 (Cab-O-Sil)	Very fine silica aggregate for minor patching and for cracks up to ¾" width and ½" depth. Mixed at a ratio 3:1 aggregate and 100 % epoxy resin	Silica
86364 (20-40 Mesh) Aggregate	Mid-Fine silica aggregate for major patching and for cracks greater than ¾" width and ½" depth. Mixed at a ratio 4:1 with 100% solids epoxy	Silica
Base Coat and/or Intermediate Coat	Description	Type
70714/70715-09	Clear and color version, 100% solids general use epoxy	Epoxy
70714/70715	Clear and color version, 100% solids epoxy	Epoxy
70734/70735	Clear version, 100% solids epoxy	Epoxy
70744/70715	Electrostatic dissipative, 81% solids epoxy	Epoxy
70724/70715	Non-sag, 100% solids epoxy	Epoxy
70704/70705	100% solids novolac	Novolac
70800/70801 70802, 70803, 70804	High chemical resistance, fast setting, water disperse cement base NEOCRETE	Polyurethane
Matrix Resin (to make mortars)	Description	Type
70714/70715-09	Clear and color version, 100% solids general use epoxy	Epoxy
70714/70715	Clear and color version, 100% solids epoxy	Epoxy
70734/70735	Clear version, 100% solids epoxy	Epoxy
70704/70705	100% solids novolac	Novolac
70800/70801 70802, 70803, 70804	High chemical resistance, fast setting, water disperse cement base NEOCRETE	Polyurethane
Topcoats	Description	Type
70714/70715-09	Clear and color version, 100% solids general use epoxy	Epoxy
70714/70715	Clear and color version, 100% solids epoxy	Epoxy
70734/70735	Clear version, 100% solids epoxy	Epoxy
70744/70715	Electrostatic dissipative, 81% solids epoxy	Epoxy
70704/70705	100% solids novolac	Novolac
Deco-Glaze	Water base, color stable, acrylic-epoxy coating	Acrylic-Epoxy
70805/7952	Color or clear version, UV stable, 62.5% solids aliphatic urethane	Polyurethane
70815/70816	Clear version, UV stable, 89% ultra high solids aliphatic urethane	Polyurethane
Acrylthane HS2	Color or clear version, UV stable, 62.5% solids aliphatic urethane	Polyurethane
70860/70865 70861/70865	Clear version, UV stable, 83% solids polyurea. High gloss and semi-gloss	Polyurea
Joint Filler	Description	Type
70718/70719	Flexible/semi-rigid 99% solids urethane-epoxy filler	Epoxy



# Systems by Application

## Floor Selection Criteria

Flooring systems are considered SACRIFICIAL AND SUSTAINABLE elements. This means that the system will take the abuse instead of the floor but it can be maintained. Therefore, proper system selection is essential to fulfill expectations and minimize maintenance and operation costs.

## Selection Criteria

1. Operation Conditions
  - Design life/current conditions & repair/maintenance
  - Structural loading
  - Traffic & mechanical requirements
  - Chemical resistance
  - Slip resistance (wet/dry conditions)
  - Hygiene requirements
  - Operating temperatures
  - Aesthetic requirements/color selection
  - Electro-static requirements
  - Regulations/safety/odor concern
2. Wearing Issues
  - Traffic/abrasion (type of wheels & how clean the floor is)
  - Impact/mechanical abuse (dragging)
  - Load
  - Chemical attack/liquid exposure (cleaning practices)
  - Low maintenance
  - Spinning
  - Static dissipation
  - Etc.
3. Sealers (3 to 8 mils DFT)
  - Related to dust roofing
4. Thin Applications (12 to 40 mils DFT)
  - Light to heavy traffic
  - High chemical exposure
  - Related to hygiene/aesthetic needs
  - Related to reflectivity
  - Related to thermal shock
  - Very specific, electrostatic dissipation (ESD)
  - Related to re-coating
  - Related to sufficient/available maintenance time

# Systems by Application

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5. Mortars (50 to 250 mils DFT)
  - Related to higher mechanical properties/requirement
  - Related to service life
  - Related to resurfacing
  - Related to thermal shock
  - Related to aggressive Chemical attack
6. Waterproofing
  - All NEOGARD Flooring Mortar Systems are suitable to be waterproofed
  - FC7500/FC7960
  - Urethane 7430
  - Waterproofing Rider



# Systems by Market Segment

1. Institutional & Manufacturing (IM)
2. Food & Animal Research (FA)
3. Maintenance (M)
4. Aviation (AV)
5. Decorative (DE)

System	Description	Principal Programs	Thickness mils DFT	Typical Application	Material
DustTuff	Water Based clear epoxy	M IM	3	As a Dust Sealer and or a pre-primer for over porous surfaces. Light traffic warehouses.	7779/7781
WearTuff	General Use, 100% solids epoxy resin for thin applications or for re-coating	M IM	16	A thin application for coating or re-coating warehouses, assembling areas, manufacturing facilities, garages, etc.	70714/70715-09
FloorTuff	High performance, 100% solids epoxy resin for thin applications or for re-coating	M IM	16	A thin application for coating or re-coating clean rooms, chemical rooms, manufacturing facilities, etc, with more demanding conditions than WearTuff	70714/70715
TrafficTuff	100% Solids Epoxy Vehicular/Pedestrian Traffic Flooring System for slabs-on-grade or for substrates with no waterproofing requirements.	IN	32	A two coat textured flooring system for slabs-on-grade, parking garages or all other levels with no waterproofing requirements.	70714/70715-09
WG - ###	Cost - effective, 100% solids epoxy resin, General Purpose flooring system.	IM	32 - 250	Ideally suited for warehouse and manufacturing facilities with heavy operation.	70714/70715-09
CG - ###	100% solids epoxy resin, Superior Mechanical and Chemical resistance system.	IM FA	32 - 250	Food processing, resurfacing, heavy mechanical industry.	Primer 70714/70715 Base 70714/70715 Optional Acrylithane-HS2
Novolac - ###	Novolac 100% solids epoxy resin system, superior chemical resistance. Good for thermal shock.	FA IM	32 - 250	Animal research, food processing, chemical rooms, freezers.	Primer 70714/70715 Base 70704/70705
KitchenGard	100% solids high performance epoxy mortar & 100% solids novolac system	IM FA	190	Animal research, food processing, chemical rooms, freezers.	1st Base 70714/70715 + Silica Flour 2nd Base 0714/70715 + Silica Flour 1st Seal 70704/70705 2nd Seal 70704/70705
ESD - ##	81% solids epoxy and conductive elements, static dissipation, high resistance to impact and chemicals	IM	28	Electronics manufacturing, data processing areas, aerospace and military facilities, static sensitive equipment, operations rooms.	Primer 70714/70715 Base 70744/70715



# Systems by Market Segment

System	Description	Principal Programs	Thickness mils DFT	Typical Application	Material
Neothane - ##	High solids chemical resistant, polyester aliphatic polyurethane system, resistant to UV degradation (exterior use).	IM FA	16 - 35	Typically used as a top coating over NEOGARD flooring and wall coatings systems.	Primer 70714/70715 Base 70805/7952, 70815/70816 or Acrylthane HS2
SkyGard - LD, MD, HD, MRO	High solids chemical resistant, polyester aliphatic polyurethane system, resistant to UV degradation (exterior use).	AV	16 - 88	Thickness and final coat suitable for heavy aircraft loads and skydrol resistance.	Primer 70714/70715 Base 70805/7952
Neocrete - T	Cement based, water dispersed polyurethane mortar. Trowel Grade.	IM FA	190 - 250	Freezers, fast turnaround, food processing.	70800/70801/70802
Neocrete - SL	Cement based, water dispersed polyurethane mortar. Self Level Grade.	IM FA	125 - 250	Freezers, fast turnaround, food processing.	70800/70801/70804
Neocrete - SL BC	Cement based, water dispersed polyurethane mortar. Self Level Grade with Texture.	IM FA	125 - 250	Freezers, fast turnaround, food processing.	70800/70801/70804 + Silica Sand 1st Seal 70704/70705 or 70800/70801
Neocrete - SL Quartz	Cement based, water dispersed polyurethane mortar. Self Level Grade with Texture; Decorative Look.	IM FA IN DE	125 - 250	Fast turnaround applications, Labs, Lobbies, Lockers, etc.	70800/70801/70804 + Colored Quartz 1st Seal 70815/70816
Neocrete - SL Flake	Cement based, water dispersed polyurethane mortar. Self Level Grade with Texture; Decorative Look.	IM FA IN DE	125 - 250	Fast turnaround applications, Labs, Lobbies, Lockers, etc.	70800/70801/70804 + Colored Micro Flakes 1st Seal 70815/70816
WallGard	Vertical or over head system for walls and ceilings. Epoxy base, 100% solids and several options as top coat. NO ODOR Concern and excellent chemical resistance.	IM FA	24 - 40	Laboratories, Kitchens, Lobbies, Shower areas, Airports, Office Buildings, Penitentiaries.	Primer 70714/70715 Base 70724/70715 Optional Reinforced Base Coat 70724/70715 Top DecoGlaze Top 70805/7952 Top 70815/70816
NeoQuartz - ##	Slip resistance, colored quartz, 100% solids epoxy mortar.	DE IM IN	65 - 250	Laboratories, Kitchens, Lobbies, Museums, Lockers, Schools	Base 70714/70715 Top 70734/70735 Optional 70805/7952 Optional 70865/70860
NeoFlake - BC	Thin film, broadcast PVC flakes, 100% solids epoxy system.	DE IM	45	Laboratories, Clean Rooms, Lobbies, Museums, Play Grounds, Kinder Class Rooms.	Primer 70714/70715 Base 70714/70715 Top 70734/70735 Optional 70805/7952 Optional 70865/70860
NeoMarble	Natural stone, broadcast marble chips, 100% solids epoxy mortar.	DE IM IN	125 - 190	Laboratories, Kitchens, Lobbies, Museums, Play Grounds, Kinder Class Rooms, Airports, Office Buildings.	Primer 70714/70715 Base 70714/70715 Grout & Seal 70734/70735 Top 70805/7952 Top 70860/70865 Top 70861/70865



# Flooring Systems

## DustTuff

1. Materials
  - Base Coat/Topcoat: 7779/7781 two component water- borne epoxy.
2. Average Dry Film Thickness
  - 3 dry mils
3. Mixing Instructions
  - Read labels.
  - Always mix color/pigmented side of material for 3 minutes before adding catalyst.
  - Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle. **Note: Take precautions not to whip air into material when mixing. this may cause bubble issues during application. If bubbles occur it will be necessary to de-air with a spike roller.**
    - **Caution: Improper mixing and improper mix ratios can result in curing problems.**
4. Application Instructions
  - Surface preparation: See the **Surface Preparation** section in the application manual.
  - Base Coat: Mix 7779/7780 at a ratio of 4 parts 7779 to 1 part 7781 by volume for 3 minutes and apply by roller in one coat at a rate of 200 - 300 sf/gal to achieve a DFT of 2.2 - 1.5 mils. **Note: Top coat must be applied within 12 hours. If top coat is not applied within 12 hours, surface needs to be lightly sanded. Remove any dust or debris from sanding.**
  - Topcoat: Mix 7779/7780 at a ratio of 4 parts 7779 to 1 part 7781 by volume for 3 minutes and apply by roller in one coat at a rate of 300 sf/gal to achieve a DFT of 1.5 mils. Let product cure for a minimum of 8 hours prior to opening to light traffic.
5. Summary Application Table for DustTuff
  - After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate (sf/gal)	Mils DFT	Cure Time @ 75°F
1st	7779/7781	Clear	4:1	3 min.	200 - 300	2.2 - 1.5	1.5 hrs or until tack free
2nd	7779/7781	Clear	4:1	3 min.	300	1.5	1.5 hrs or until tack free

## WearTuff

### 1. Materials

- Primer: 70714/70715-09 clear 100% solids epoxy.
- Topcoat: 70714/70715-09 clear or pigmented epoxy.
- Optional Topcoat: CRU 70805/7952 or Acrylithane HS2.
- Aggregate: For textured finish use 86364 aggregate.

### 2. Average Total Dry Film Thickness

- 16 dry mils

### 3. Mixing Instructions

- Read labels.
- Always mix color/pigmented side of material for 3 minutes before adding catalyst.
- Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle. **Note: Take precautions not to whip air into material when mixing, this may cause bubble issues during application. If bubbles occur it will be necessary to de-air with a spike roller.**
  - **Caution: Improper mixing and improper mix ratios can result in curing problems.**

### 4. Application Instructions

- Surface preparation: See the **Surface Preparation** section in the application manual.
- Primer: Mix 70714/70715-09 clear epoxy at a ratio of 2 parts 70714 to 1 part 70715-09 by volume for 3 minutes and apply at a rate of 260 sf/gal to achieve a DFT of 6 mils. **Note: Primer should always be clear.**
- Optional Texture Finish: If a texture finish is required, broadcast 86364 aggregate into wet primer coat at a rate of 10 lbs per 100 square feet.
- Topcoat: Mix 70714/70715-09 clear or pigmented epoxy at a ratio of 2 parts 70714 to 1 part 70715-09 by volume for 3 minutes and apply at a rate of 160 sf/gal to achieve a DFT of 10 mils. **Note: Topcoat needs to be applied within 24 hours of the primer application. If topcoat is not applied within 24 hours, surface will need to be lightly sanded, vacuumed, then solvent wiped.**
- Optional Topcoat: For exterior application (UV stability) or color, apply pigmented CRU 70805/7952 or Acrylithane HS2 at 250 sf/gal.

### 5. Summary Application Table for WearTuff

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate (sf/gal)	Mils DFT	Cure Time @ 75°F
Primer	70714/70715-09	Clear	2:1	3 min.	260	6	8 - 12 hrs or until tack free
Top	70714/70715-09	Clear/Color	2:1	3 min.	160	10	8 - 12 hrs or until tack free

**Note: For exterior application (UV stability) or color, apply pigmented CRU 70805/7952 or Acrylithane HS2 at 250 sf/gal.**

# Flooring Systems

## FloorTuff

1. Materials
  - Primer: 70714/70715 clear 100% solids epoxy.
  - Topcoat: 70714/70715 clear or pigmented.
  - Optional Topcoat: CRU 70805/7952 or Acrylithane HS2.
  - Aggregate: For textured finish use 86364 aggregate.
2. Average Total Dry Film Thickness
  - 16 dry mils
3. Mixing Instructions
  - Read labels.
  - Always mix color/pigmented side of material for 3 minutes before adding catalyst.
  - Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle. **Note: Take precautions not to whip air into material when mixing, this may cause bubble issues during application. If bubbles occur it will be necessary to de-air with a spike roller.**
    - **Caution: Improper mixing and improper mix ratios can result in curing problems.**
4. Application Instructions
  - Surface preparation: See the **Surface Preparation** section in the application manual.
  - Primer: Mix 70714/70715 clear epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for 3 minutes and apply at a rate of 260 sf/gal to achieve a DFT of 6 mils. **Note: Primer should always be clear.**
  - Optional Texture Finish: If a texture finish is required, broadcast 86364 aggregate into wet primer coat at a rate of 10 lbs per 100 square feet.
  - Topcoat: Mix 70714/70715 clear or pigmented epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for 3 minutes and apply at a rate of 160 sf/gal to achieve a DFT of 10 mils. **Note: Topcoat needs to be applied within 24 hours of the primer application. If topcoat is not applied within 24 hours, surface will need to be lightly sanded, vacuumed, then solvent wiped.**
  - Optional Topcoat: For exterior application (UV stability) or color, apply pigmented CRU 70805/7952 or Acrylithane HS2 at 250 sf/gal.
5. Summary Application Table for FloorTuff
  - After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate (sf/gal)	Mils DFT	Cure Time @ 75°F
Primer	70714/70715	Clear	2:1	3 min.	260	6	8 - 12 hrs or until tack free
Top	70714/70715	Clear/Color	2:1	3 min.	160	10	8 - 12 hrs or until tack free

**Note: For exterior application (UV stability) or color, apply pigmented CRU 70805/7952 or Acrylithane HS2 at 250 sf/gal.**

## TrafficTuff

### 1. Materials

- Base Coat: 70714/70715-09 clear 100% solids epoxy.
- Seal Coat: 70714/70715-09 pigmented epoxy.
- Crack Filler: 70718/70719 flexible epoxy.
- Sealant: 70991 or other polyurethane sealant approved by NEOGARD.
- Fillers: P1934 fumed silica, 7992 and 86364 aggregate.
- Optional Topcoat: CRU 70805/7952 pigmented or Acrylithane HS2.

### 2. Average Total Dry Film Thickness

- 36 dry mils

### 3. Mixing Instructions

- Read labels.
- Always mix color/pigmented side of material for 3 minutes before adding catalyst.
- Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle. **Note: Take precautions not to whip air into material when mixing, this may cause bubble issues during application. If bubbles occur it will be necessary to de-air with a spike roller.**
  - **Caution: Improper mixing and improper mix ratios can result in curing problems.**

### 4. Application Instructions

- Surface preparation: See the **Surface Preparation** section in the application manual.
- Base Coat: Mix 70714/70715-09 clear epoxy at a ratio of 2 parts 70714 to 1 part 70715-09 for three minutes and apply at a rate of 100 square feet per gallon (16 WFT) with a notched squeegee, notched trowel or short nap (3/8") roller and backroll.
- Aggregate: Broadcast 7992 or 86364 aggregate into wet epoxy base coat until refusal at a rate of approximately 40 pounds per 100 square feet. Maintain a one to two foot wet edge without any aggregate to allow for a smooth transition to the next pass of neat epoxy. Allow to cure for 8 – 12 hours @70 degrees. Remove excess aggregate and lightly sand with a circular floor sander to remove any rough spots.
- Seal Coat: Mix 70714/70715-09 pigmented epoxy at a ratio of 2 parts 70714 to 1 part 70715-09 for three minutes. **Note: Always pre mix colored side first before adding 70715-09 catalyst.** Apply seal coat of 70714/70715-09 pigmented epoxy at a rate of 100 square feet per gallon (16 WFT) and allow to cure 8 – 12 hours@ 70 degrees or until tack free.
- Exterior Optional Coat: Apply one coat of pigmented CRU 70805/7952 or Acrylithane HS2 at a rate of 200 square feet per gallon (8 WFT) and allow to cure 24 hours @ 70 degrees before allowing foot traffic or 48 hours at 75 degrees for heavy traffic.

### 5. Summary Application Table for TrafficTuff

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate (sf/gal)	Mils DFT	Cure Time @ 75°F
Base	70714/70715-09	Clear	2:1	3 min.	100	16	8 - 12 hrs or until tack free
	7992 or 86364	Natural	Broadcast		0.4 lbs		
Seal	70714/70715-09	Clear/Color	2:1	3 min.	80	20	8 - 12 hrs or until tack free

**Note: For exterior application (UV stability) or color, apply pigmented CRU 70805/7952 or Acrylithane HS2 at 200 sf/gal.**



# Flooring Systems

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## WG-32

1. Materials
  - Crack and Joint Filler: 70718/70719 flexible epoxy.
  - Fillers: P1934 fumed silica and 86364 blended aggregate.
  - Epoxy: 70714/70715-09 clear or pigmented.
  - Sealant: 70991 or other polyurethane sealant approved by NEOGARD
  - Texture: 86500 Neogrip spheres.
2. Average Total Dry Film Thickness
  - 32 dry mils
3. Mixing Instructions
  - Read labels.
  - Always mix color/pigmented side of material for 3 minutes before adding catalyst.
  - Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle. **Note: Take precautions not to whip air into material when mixing, this may cause bubble issues during application. If bubbles occur it will be necessary to de-air with a spike roller.**
    - **Caution: Improper mixing and improper mix ratios can result in curing problems.**
4. Application Instructions
  - Surface preparation: See the **Surface Preparation** section in the application manual.
  - Primer: Mix 70714/70715-09 clear epoxy at a ratio of 2 parts 70714 to 1 part 70715-09 by volume for three minutes and apply at a rate of 200 square feet per gallon (8 mils DFT). Primer should be tack free before applying base coat. **Note: Primer should always be clear.**
  - Base Coat: Mix 70714/70715-09 clear or pigmented epoxy at a ratio of 2 parts 70714 to 1 part 70715-09 by volume for 3 minutes and apply at a rate of 130 square feet per gallon to achieve 12 mils DFT. Allow to cure for 8 – 12 hours @ 70 degrees or until tack free. **Note: Base coat needs to be applied within 24 hours after primer is cured. If base coat is not applied within the 24 hours, the primer will need to be lightly sanded, vacuumed, and solvent wipe with xylene or 7055 oderless reducer.**
  - Topcoat: Mix 70714/70715-09 clear or pigmented epoxy at a ratio of 2 parts 70714 to 1 part 70715-09 by volume for 3 minutes and apply at a rate of 130 square feet per gallon to achieve 12 mils DFT. Allow to cure for 24 hours @ 70 degrees before allowing foot traffic. **Note: Topcoat needs to be applied within 24 hours after base coat is cured. If topcoat is not applied within the 24, the base coat will need to be lightly sanded, vacuumed and solvent wiped with xylene or 7055 oderless reducer.**
  - Optional Texture Coat: For limited slip resistance apply a third coat of 70714/70715-09 epoxy. Add 4 – 6 ounces by volume of Neogrip spheres to one and a half gallons of mixed epoxy and mix for three minutes. Apply at a rate of 350 - 400 square feet per gallon to achieve 4 mils DFT. **Note: It may be necessary to periodically mix the material every 10-15 minutes to re- suspend the Neogrip spheres because they will settle in the bucket.**
    - **Caution: Installing the textured finish thicker than 4 dry mils will cause the Neogrip spheres to sink into the epoxy coating, thus eliminating the desired slip-resistant texture.**

## 5. Summary Application Table for WG-32

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate (sf/gal)	Mils DFT	Cure Time @ 75°F
Primer	70714/70715-09	Clear	2:1	3 min.	200	8	8 - 12 hrs or until tack free
Base	70714/70715-09	Clear/Color	2:1	3 min.	130	12	8 - 12 hrs or until tack free
Top	70714/70715-09	Clear/Color	2:1	3 min.	130	12	8 - 12 hrs or until tack free

## WG Broadcast

### 1. Materials

- Crack and Joint Filler: 70718/70719 flexible epoxy.
- Fillers: P1934 fumed silica and 86364 blended aggregate.
- Epoxy: 70714/70715-09 clear or pigmented.
- Aggregate: 86364 silica quartz.
- Sealant: 70991 or other polyurethane sealant approved by NEOGARD.

### 2. Average Total Dry Film Thickness

- 62 dry mils single broadcast
- 125 dry mils double broadcast

### 3. Mixing Instructions

- Read labels.
- Always mix color/pigmented side of material for 3 minutes before adding catalyst.
- Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle. **Note: Take precautions not to whip air into material when mixing, this may cause bubble issues during application. If bubbles occur it will be necessary to de-air with a spike roller.**
  - **Caution: Improper mixing and improper mix ratios can result in curing problems.**

### 4. Application Instructions

- Surface preparation: See the **Surface Preparation** section in the application manual.
- Base Coat: Mix 70714/70715-09 clear at a ratio of 2 parts 70714 to 1 part 70715-09 by volume for three minutes and apply at a rate of 80 square feet per gallon (20 mils DFT) with a notched squeegee. Back roll with a short napped phenolic roller. Allow to cure 8 - 12 hours @ 70 degrees or until tack free.
- Aggregate: Broadcast 86364 silica quartz into wet base coat to refusal at a rate of 50 pounds per 100 square feet. Allow to cure 8 - 12 hours @ 70 degrees. Remove excess aggregate and lightly sand with a circular floor sander with #50 grit sandpaper to remove any rough spots. **Note: Each broadcast will achieve a nominal thickness of 1/16". Repeat base coat and broadcast steps to achieve required thickness.**
- First Seal Coat: Mix 70714/70715-09 clear or pigmented epoxy at a ratio of 2 parts 70714 to 1 part 70715-09 by volume for 3 minutes and apply at a rate of 160 square feet per gallon (10 mils DFT). Allow to cure 10 - 14 hours @ 70 degrees or until tack free.
- Second Seal Coat: Mix 70714/70715-09 pigmented epoxy at a ratio of 2 parts 70714 to 1 part 70715-09 by volume for 3 minutes and apply at a rate of 200 square feet per gallon (8 mils DFT). Allow to cure 24 hours before allowing foot traffic.

# Flooring Systems

- Optional Topcoat: For chemical resistance, consult NEOGARD for finish coat.

## 5. Summary Application Table for WG Broadcast

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate/SF	Mils DFT	Cure Time @ 75°F
1st Base	70714/70715-09	Clear	2:1	3 min.	80	20	8 - 12 hrs or until tack free
	40-95 Sand	Natural	Broadcast		0.5 lbs	30	
2nd Base	70714/70715-09	Color	2:1	3 min.	80	20	8 - 12 hrs or until tack free
	40-95 Sand	Natural	Broadcast		0.5 lbs	30	
1st Seal	70714/70715-09	Color	2:1	3 min.	160	10	8 - 12 hrs or until tack free
2nd Seal	70714/70715-09	Color	2:1	3 min.	200	8	8 - 12 hrs or until tack free

Each base coat provides 1/16" of thickness. Repeat base coats until specified thickness is obtained.

## WG Trowel

### 1. Materials

- Crack and Joint Filler: 70718/70719 flexible epoxy.
- Fillers: P1934 fumed silica and 86364 blended aggregate.
- Epoxy: 70714/70715-09 clear or pigmented.
- Aggregate: 86364 silica quartz.
- Sealant: 70991 or other polyurethane sealant approved by NEOGARD.

### 2. Average Total Dry Film Thickness

- 1/4" (250 dry mils) or required thickness. **Note: Mixing one gallon of mixed epoxy with 4 parts of aggregate (86364) will cover approximately 21 square feet at 1/4" thick.**

### 3. Mixing Instructions

- Read labels.
- Always mix color/pigmented side of material for 3 minutes before adding catalyst.
  - **Caution: Improper mixing and improper mix ratios can result in curing problems.**

### 4. Application Instructions

- Surface preparation: See the **Surface Preparation** section in the application manual.
- Primer: Mix 70714/70715-09 clear epoxy at a ratio of 2 parts 70714 to 1 part 70715-09 by volume for 3 minutes and apply at a rate of 200 square feet per gallon (8 mils DFT) with 1/4" phenolic roller or flat squeegee. Immediately lightly broadcast 86364 aggregate into wet primer. This will create an anchor profile for the mortar mix. Primer should be tack free before applying trowel grade mortar.
- Trowel Grade Mortar: Mix 70714/70715-09 clear or pigmented epoxy with 86364 aggregate at a ratio of 1 part mixed epoxy to 4 parts aggregate by volume. Screed, rake or trowel mortar mix to desired thickness. Smooth and tightly close surface by hand or power trowel. Lightly mist surface with mineral spirits or 7055 odorless reducer as a lubricant to help smooth off surface. Allow to cure 8 - 12 hours @ 70 degrees. Lightly sand surface with circular sander with #50 grit sandpaper to remove rough areas or trowel marks.
  - **Caution: Finishing by hand troweling may require more seal coats to achieve smooth finish.**

# Flooring Systems

- Grout Coat: Mix 70714/70715-09 clear or pigmented epoxy at a rate of 2 parts 70714 to 1 part 70715-09 by volume for 3 minutes and apply with 3/8" roller or notched squeegee at a rate of 200 square feet per gallon (8 mils DFT) and allow to cure for 10 - 14 hours @ 70 degrees or until tack free. **Note: When applying material with a notched squeegee, it will be necessary to back roll epoxy.**
- First Seal Coat: Mix 70714/70715-09 clear or pigmented epoxy at a rate of 2 parts 70714 to 1 part 70715-09 by volume for 3 minutes and apply with 3/8" roller or notched squeegee at a rate of 200 square feet per gallon (8 mils DFT) and allow to cure 10 - 14 hours at 70 degrees or until tack free. **Note: When applying material with a notched squeegee, it will be necessary to back roll epoxy.**
- Second Seal Coat: Mix 70714/70715-09 clear or pigmented epoxy at a rate of 2 parts 70714 to 1 part 70715-09 by volume for 3 minutes and apply with 3/8" roller or notched squeegee at a rate of 200 square feet per gallon (8 mils DFT) and allow to cure for 24 hours @ 70 degrees before allowing foot traffic. **Note: When applying material with a notched squeegee, it will be necessary to back roll epoxy.**
- Optional Topcoat: To maximize chemical resistance consult NEOGARD for finish coat.

## 5. Summary Application Table for WG Trowel

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate/SF	Mils DFT	Cure Time @ 75°F
Primer	70714/70715-09	Clear	2:1	3 min.	200	8	8 - 12 hrs or until tack free
	40-95 Sand	Natural	Broadcast		0.2 lbs		
Mortar	70714/70715-09	Color	2:1	3 min.	Specified Thickness		8 - 12 hrs or until tack free
	40-95 Sand	Natural	4:1				
Grout	70714/70715-09	Color	2:1	3 min.	200	8	8 - 12 hrs or until tack free
1st Seal	70714/70715-09	Color	2:1	3 min.	200	8	8 - 12 hrs or until tack free
2nd Seal	70714/70715-09	Color	2:1	3 min.	200	8	8 - 12 hrs or until tack free

For Mortar coverate rates, refer to page 51 of this application manual.

## CG-32

### 1. Materials

- Crack and Joint Filler: 70718/70719 flexible epoxy.
- Fillers: P1934 fumed silica and 86364 blended aggregate.
- Epoxy: 70714/70715 clear or pigmented epoxy.
- Sealant: 70991 or other polyurethane sealant approved by NEOGARD
- Texture: 86500 Neogrip spheres.

### 2. Average Total Dry Film Thickness

- 32 dry mils

### 3. Mixing Instructions

- Read labels.
- Always mix color/pigmented side of material for 3 minutes before adding catalyst.

# Flooring Systems

- Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle. **Note: Take precautions not to whip air into material when mixing, this may cause bubble issues during application. If bubbles occur it will be necessary to de-air with a spike roller.**
  - **Caution: Improper mixing and improper mix ratios can result in curing problems.**

## 4. Application Instructions

- Surface preparation: See the **Surface Preparation** section in the application manual.
- Primer: Mix 70714/70715 clear epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for three minutes and apply at a rate of 200 square feet per gallon (8 mils DFT). Primer should be tack free before applying base coat. **Note: Primer should always be clear.**
- Base Coat: Mix 70714/70715 clear or pigmented epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for 3 minutes and apply at a rate of 130 square feet per gallon to achieve 12 mils DFT. Allow to cure for 8 – 12 hours @ 70 degrees or until tack free. **Note: Base coat needs to be applied within 24 hours after primer is cured. If base coat is not applied within the 24 hours, the primer will need to be lightly sanded, vacuumed, and solvent wipe with xylene or 7055 odorless reducer.**
- Topcoat: Mix 70714/70715 clear or pigmented epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for 3 minutes and apply at a rate of 130 square feet per gallon to achieve 12 mils DFT. Allow to cure for 24 hours @ 70 degrees before allowing foot traffic. **Note: Topcoat needs to be applied within 24 hours after base coat is cured. If topcoat is not applied within the 24, the base coat will need to be lightly sanded, vacuumed and solvent wiped with xylene or 7055 odorless reducer.**
- Optional Texture Coat: For limited slip resistance apply a third coat of 70714/70715 epoxy. Add 4 – 6 ounces by volume of Neogrip spheres to one and a half gallons of mixed epoxy and mix for three minutes. Apply at a rate of 350 - 400 square feet per gallon to achieve 4 mils DFT. **Note: It may be necessary to periodically mix the material every 10-15 minutes to re-suspend the Neogrip spheres because they will settle in the bucket.**
  - **Caution: Installing the textured finish thicker than 4 dry mils will cause the Neogrip spheres to sink into the epoxy coating, thus eliminating the desired slip-resistant texture.**

## 5. Summary Application Table for CG-32

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate (sf/gal)	Mils DFT	Cure Time @ 75°F
Primer	70714/70715	Clear	2:1	3 min.	200	8	8 - 12 hrs or until tack free
Base	70714/70715	Clear/Color	2:1	3 min.	130	12	8 - 12 hrs or until tack free
Top	70714/70715	Clear/Color	2:1	3 min.	130	12	8 - 12 hrs or until tack free

## CG Broadcast

### 1. Materials

- Crack and Joint Filler: 70718/70719 flexible epoxy.
- Fillers: P1934 fumed silica and 86364 blended aggregate.
- Epoxy: 70714/70715 clear or pigmented.



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- Aggregate: 86364 silica quartz.
  - Sealant: 70991 or other polyurethane sealant approved by NEOGARD.
2. Average Total Dry Film Thickness
- 62 dry mils single broadcast
  - 125 dry mils double broadcast
3. Mixing Instructions
- Read labels.
  - Always mix color/pigmented side of material for 3 minutes before adding catalyst.
  - Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle. **Note: Take precautions not to whip air into material when mixing, this may cause bubble issues during application. If bubbles occur it will be necessary to de-air with a spike roller.**
    - **Caution: Improper mixing and improper mix ratios can result in curing problems.**
4. Application Instructions
- Surface preparation: See the **Surface Preparation** section in the application manual.
  - Base Coat: Mix 70714/70715 clear at a ratio of 2 parts 70714 to 1 part 70715 by volume for three minutes and apply at a rate of 80 square feet per gallon (20 mils DFT) with a notched squeegee. Back roll with a short napped phenolic roller. Allow to cure 8 - 12 hours @ 70 degrees or until tack free.
  - Aggregate: Broadcast 86364 silica quartz into wet base coat to refusal at a rate of 50 pounds per 100 square feet. Allow to cure 8 - 12 hours @ 70 degrees. Remove excess aggregate and lightly sand with a circular floor sander with #50 grit sandpaper to remove any rough spots. **Note: Each broadcast will achieve a nominal thickness of 1/16". Repeat base coat and broadcast steps to achieve required thickness.**
  - First Seal Coat: Mix 70714/70715 pigmented epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for 3 minutes and apply at a rate of 160 square feet per gallon (10 mils DFT) and allow to cure 10 - 14 hours @ 70 degrees or until tack free.
  - Second Seal Coat: Mix 70714/70715 pigmented epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for 3 minutes and apply at a rate of 200 square feet per gallon (8 mils DFT). Allow to cure 24 hours before allowing foot traffic.
  - Optional Topcoat: For chemical resistance, consult NEOGARD for finish coat.
5. Summary Application Table for CG Broadcast
- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate/SF	Mils DFT	Cure Time @ 75°F
1st Base	70714/70715	Clear	2:1	3 min.	80	20	8 - 12 hrs or until tack free
	40-95 Sand	Natural	Broadcast		0.5 lbs	30	
2nd Base	70714/70715	Color	2:1	3 min.	80	20	8 - 12 hrs or until tack free
	40-95 Sand	Natural	Broadcast		0.5 lbs	30	
1st Seal	70714/70715	Color	2:1	3 min.	160	10	8 - 12 hrs or until tack free
2nd Seal	70714/70715	Color	2:1	3 min.	200	8	8 - 12 hrs or until tack free

**Each base coat provides 1/16" of thickness. Repeat base coats until specified thickness is obtained.**

# Flooring Systems

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## CG Trowel

1. Materials
  - Crack and Joint Filler: 70718/70719 flexible epoxy.
  - Fillers: P1934 fumed silica and 86364 blended aggregate.
  - Epoxy: 70714/70715 clear or pigmented.
  - Aggregate: 86364 silica quartz.
  - Sealant: 70991 or other polyurethane sealant approved by NEOGARD.
2. Average Total Dry Film Thickness
  - 1/4" (250 dry mils) or required thickness. **Note: Mixing one gallon of mixed epoxy with 4 parts of aggregate (86364) will cover approximately 21 square feet at 1/4" thick.**
3. Mixing Instructions
  - Read labels.
  - Always mix color/pigmented side of material for 3 minutes before adding catalyst.
    - **Caution: Improper mixing and improper mix ratios can result in curing problems.**
4. Application Instructions
  - Surface preparation: See the **Surface Preparation** section in the application manual.
  - Primer: Mix 70714/70715 clear epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for 3 minutes and apply at a rate of 200 square feet per gallon (8 mils DFT) with 1/4" phenolic roller or flat squeegee. Immediately lightly broadcast 86364 aggregate into wet primer. This will create an anchor profile for the mortar mix. Primer should be tack free before applying trowel grade mortar.
  - Trowel Grade Mortar: Mix 70714/70715 clear or pigmented epoxy with 86364 aggregate at a ratio of 1 part mixed epoxy to 4 parts aggregate by volume. Screed, rake or trowel mortar mix to desired thickness. Smooth and tightly close surface by hand or power trowel. Lightly mist surface with mineral spirits or 7055 odorless reducer as a lubricant to help smooth off surface. Allow to cure 8 - 12 hours @ 70 degrees. Lightly sand surface with circular sander with #50 grit sandpaper to remove rough areas or trowel marks.
    - **Caution: Finishing by hand troweling may require more seal coats to achieve smooth finish.**
  - Grout Coat: Mix 70714/70715 clear or pigmented epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for 3 minutes and apply with 3/8" roller or notched squeegee at a rate of 200 square feet per gallon (8 mils DFT). Allow to cure for 10 - 14 hours @ 70 degrees or until tack free. **Note: When applying material with a notched squeegee, it will be necessary to back roll epoxy.**
  - First Seal Coat: Mix 70714/70715 clear or pigmented epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for 3 minutes and apply with 3/8" roller or notched squeegee at a rate of 200 square feet per gallon (8 mils DFT). Allow to cure 10 - 14 hours at 70 degrees or until tack free. **Note: When applying material with a notched squeegee, it will be necessary to back roll epoxy.**
  - Second Seal Coat: Mix 70714/70715 clear or pigmented epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for 3 minutes and apply with 3/8" roller or notched squeegee at a rate of 200 square feet per gallon (8 mils DFT). Allow to cure for 24 hours @ 70 degrees before allowing foot traffic. **Note: When applying material with a notched squeegee, it will be necessary to back roll epoxy.**
  - Optional Topcoat: To maximize chemical resistance consult NEOGARD for finish coat.

## 5. Summary Application Table for CG Trowel

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate/SF	Mils DFT	Cure Time @ 75°F
Primer	70714/70715	Clear	2:1	3 min.	200	8	8 - 12 hrs or until tack free
	40-95 Sand	Natural	Broadcast		0.2 lbs		
Mortar	70714/70715	Color	2:1	3 min.	Specified Thickness		8 - 12 hrs or until tack free
	40-95 Sand	Natural	4:1				
Grout	70714/70715	Color	2:1	3 min.	200	8	8 - 12 hrs or until tack free
1st Seal	70714/70715	Color	2:1	3 min.	200	8	8 - 12 hrs or until tack free
2nd Seal	70714/70715	Color	2:1	3 min.	200	8	8 - 12 hrs or until tack free

For Mortar coverate rates, refer to page 51 of this application manual.

## Kitchengard 190

### 1. Materials

- Crack and Joint Filler: 70718/70719 flexible epoxy.
- Fillers: P1934 fumed silica and 86364 silica quartz.
- Epoxy: 70714/70715 clear or pigmented.
- Aggregate: 86468 silica flour and 86364 silica quartz.
- Seal Coat: 70704/70705 novolac pigmented epoxy.
- Sealant: 70991 or other polyurethane sealant approved by NEOGARD.

### 2. Average Total Dry Film Thickness

- 180 dry mils

### 3. Mixing Instructions

- Read labels.
- Always mix color/pigmented side of material for 3 minutes before adding catalyst.
- Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle. **Note: Take precautions not to whip air into material when mixing, this may cause bubble issues during application. If bubbles occur it will be necessary to de-air with a spike roller.**
  - Caution: Improper mixing and improper mix ratios can result in curing problems.**

### 4. Application Instructions

- Surface Preparation: See the **Surface Preparation** section in the application manual.
- First Slurry Base Coat: Mix 70714/70715 clear epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for 3 minutes. Add 86468 silica flour at a ratio of 1:1 by volume with mixed epoxy. Continue to mix until the slurry's consistency is smooth with no clumps. Spread mix using a 1/4" notched squeegee or trowel at a rate of 40 sf/gal to achieve a nominal thickness of 40 mils. Allow to self-level and then de-air with a spiked roller.
- Aggregate: Broadcast 86364 silica quartz into wet slurry matrix until refusal at a rate of approximately 1 pound per square foot. Allow to cure for 8 - 12 hours @ 70 degrees. Remove excess aggregate and lightly sand with a circular floor sander with #50 grit sandpaper to remove any rough spots. **Note: Maintain a one to two foot wet edge without any aggregate to allow for a smooth transition to the next pass of slurry matrix.**

# Flooring Systems

- Second Slurry Base Coat: Repeat same procedure as above.
- First Seal Coat: Mix 70704/70705 novolac pigmented epoxy at a ratio of 3 parts 70704 to 2 parts 70705 by volume for 3 minutes and apply at a rate of 200 square feet per gallon (8 mils DFT). Allow to cure 24 hours @ 70 degrees.
- Second Seal Coat: Mix 70704/70705 novolac pigmented epoxy at a ratio of 3 parts 70704 to 2 parts 70705 by volume for 3 minutes and apply at a rate of 200 square feet per gallon (8 mils DFT). Allow to cure for 24 hours @ 70 degrees before allowing foot traffic.

## 5. Summary Application Table for Kitchengard 190

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate/SF	Mils DFT	Cure Time @ 75°F
1st Base	70714/70715	Color/Clear	2:1	3 min.	72	22	8 - 12 hrs or until tack free
	Silica Flour #200	Natural	Mixed		0.22 lbs	19	
	40-90 Sand	Natural	Broadcast		1.0 lbs	41	
2nd Base	70714/70715	Color/Clear	2:1	3 min.	72	22	8 - 12 hrs or until tack free
	Silica Flour #200	Natural	Mixed		0.22 lbs	19	
	40-95 Sand	Natural	Broadcast		1.0 lbs	41	
1st Seal	70704/70705	Color	3:2	3 min.	200	8	8 - 12 hrs or until tack free
2nd Seal	70704/70705	Color	3:2	3 min.	200	8	8 - 12 hrs or until tack free

Each slurry base coat provides approximately 80 mils.

## Novolac 32

### 1. Materials

- Crack and Joint Filler: 70718/70719 flexible epoxy.
- Fillers: P1934 fumed silica and 86364 aggregate.
- Epoxy: 70714/70715 clear.
- Novolac Epoxy: 70704/70705 pigmented.
- Texture: 86500 Neogrip Spheres.
- Sealant: 70991 or other polyurethane sealant approved by NEOGARD.

### 2. Average Total Dry Film Thickness

- 32 dry mils

### 3. Mixing Instructions

- Read labels.
- Always mix color/pigmented side of material for 3 minutes before adding catalyst.
- Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle. **Note: Take precautions not to whip air into material when mixing, this may cause bubble issues during application. If bubbles occur it will be necessary to de-air with a spike roller.**
  - **Caution: Improper mixing and improper mix ratios can result in curing problems.**

### 4. Application Instructions

- Surface preparation: See the **Surface Preparation** section in the application manual.
- Primer: Mix 70714/70715 clear epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for 3

minutes and apply at a rate of 200 square feet per gallon (8 mils DFT). Primer should be tack free before applying base coat. **Note: Primer should always be clear.**

- Base Coat: Mix 70704/70705 novolac epoxy at a ratio of 3 parts 70704 to 2 parts 70705 by volume for 3 minutes and apply at a rate of 100 square feet per gallon (16 mils DFT). Allow to cure for 8 - 12 hours @ 70 degrees. **Note: Base coat should be applied within 24 hours after primer has cured. If the base coat is not applied within this 24 hour period, primer will need to be lightly sanded, vacuumed and solvent wiped.**
- Topcoat: Mix 70704/70705 novolac epoxy at a ratio of 3 parts 70704 to 2 parts 70705 by volume for 3 minutes and apply at a rate of 200 square feet per gallon (8 mils DFT). Allow to cure for 24 hours @ 70 degrees before allowing foot traffic. **Note: Top coat should be applied within 24 hours after base coat has cured. If the top coat is not applied within this 24 hour period, base coat will need to be lightly sanded, vacuumed and solvent wiped.**
- Optional Textured Finish: To achieve a limited slip resistance surface, a third coat of 70704/70705 novolac epoxy must be applied. Add 12 - 18 ounces by volume of Neogrip spheres to 3 gallons of 70704. Mix the 3 gallons of 70704 containing the Neogrip spheres for 3 minutes, then add 70705 catalyst and mix for an additional 3 minutes. Apply final coat at a rate of 350 - 400 square feet per gallon to yield an average thickness of 4 mils WFT. **Note: It may be necessary to periodically mix the material every 10 - 15 minutes to re-suspend the Neogrip spheres because they will settle in bucket.**
  - **Caution: Installing the textured finish thicker than 4 mils WFT will cause the Neogrip spheres to sink into the 70704/70705 epoxy coating, thus eliminating the desired slip resistant texture.**

## 5. Summary Application Table for Novolac 32

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate (sf/gal)	Mils DFT	Cure Time @ 75°F
Primer	70714/70715	Clear	2:1	3 min.	200	8	8 - 12 hrs or until tack free
Base	70704/70705	Color	3:2	3 min.	130	12	8 - 12 hrs or until tack free
Top	70704/70705	Color	3:2	3 min.	130	12	8 - 12 hrs or until tack free

## Novolac Broadcast

### 1. Materials

- Crack and Joint Filler: 70718/70719 flexible epoxy.
- Fillers: P1934 fumed silica and 86364 aggregate.
- Epoxy: 70714/70715 clear.
- Novolac Epoxy: 70704/70705 pigmented.
- Aggregate: 86364 silica quartz.
- Sealant: 70991 or other polyurethane sealant approved by NEOGARD.

### 2. Average Total Dry Film Thickness

- 62 dry mils single broadcast
- 125 dry mils double broadcast

### 3. Mixing Instructions

- Read labels.

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- Always mix color/pigmented side of material for 3 minutes before adding catalyst.
- Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle. **Note: Take precautions not to whip air into material when mixing, this may cause bubble issues during application. If bubbles occur it will be necessary to de-air with a spike roller.**
  - **Caution: Improper mixing and improper mix ratios can result in curing problems.**

## 4. Application Instructions

- Surface preparation: See the **Surface Preparation** section in the application manual.
- First Base Coat: Mix 70714/70715 clear epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for 3 minutes and apply at a rate of 80 square feet per gallon (20 mils DFT) with a notched squeegee or notched trowel. Back roll with a short napped phenolic roller to ensure even coverage.
- Aggregate: Broadcast 86364 silica quartz into wet base coat until refusal at a rate of approximately 50 pounds per 100 square feet. **Note: Maintain a one to two foot wet edge without any aggregate to allow for a smooth transition to the next pass of neat epoxy.**
- Second Base Coat: To achieve 1/8" thickness, repeat the above application procedure. **Note: each base coat/broadcast will achieve a nominal thickness of 1/16"**.
- First Seal Coat: Mix 70704/70705 pigmented novolac epoxy at a ratio of 3 parts 70704 to 2 parts 70705 by volume for 3 minutes and apply by roller at a rate of 200 square feet per gallon (8 mils DFT). Allow to cure for 24 hours @ 70 degrees.
- Second Seal Coat: Mix 70704/70705 pigmented novolac epoxy at a ratio of 3 parts 70704 to 2 parts 70705 by volume for 3 minutes and apply by roller at a rate of 200 square feet per gallon (8 mils DFT). Allow to cure for 24 hours @ 70 degrees before allowing foot traffic.

## 5. Summary Application Table for Novolac Broadcast

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate/SF	Mils DFT	Cure Time @ 75°F
1st Base	70714/70715	Clear	2:1	3 min.	80	20	8 - 12 hrs or until tack free
	40-95 Sand	Natural	Broadcast		0.5 lbs	30	
2nd Base	70704/70705	Color	3:2	3 min.	80	20	8 - 12 hrs or until tack free
	40-95 Sand	Natural	Broadcast		0.5 lbs	30	
1st Seal	70704/70705	Color	3:2	3 min.	160	10	8 - 12 hrs or until tack free
2nd Seal	70704/70705	Color	3:2	3 min.	200	8	8 - 12 hrs or until tack free

Each base coat provides 1/16" of thickness. Repeat base coats until specified thickness is obtained.

## Novolac Trowel

### 1. Materials

- Crack and Joint Filler: 70718/70719 flexible epoxy.
- Fillers: P1934 fumed silica and 86364 aggregate.
- Epoxy: 70714/70715 clear.
- Novolac Epoxy: 70704/70705 pigmented.
- Aggregate: 86364 silica quartz.
- Sealant: 70991 or other polyurethane approved by NEOGARD.



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2. Average Total Dry Film Thickness
  - 1/4" (250 dry mils) or required thickness.
3. Mixing Instructions
  - Read labels.
  - Always mix color/pigmented side of material for 3 minutes before adding catalyst.
    - **Caution: Improper mixing and improper mix ratios can result in curing problems.**
4. Application Instructions
  - Surface preparation: See the **Surface Preparation** section in the application manual.
  - Primer: Mix 70714/70715 clear epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for 3 minutes and apply at a rate of 200 square feet per gallon (8 mils DFT). Immediately lightly broadcast 86364 aggregate into wet primer to create an anchor profile for the trowel grade mortar. Primer should be tack free before installing the mortar material.
  - Trowel Grade Mortar: Mix 70704/70705 pigmented novolac epoxy at rate of 3 parts 70704 to 2 parts 70705 by volume for 3 minutes. Add 86364 silica quartz to resin binder at a ratio of 4:1 by volume. Screed, rake or trowel mix to desired thickness. Smooth and tightly close surface with a power or hand trowel. Lightly mist mineral spirits or 7055 odorless reducer as a trowel lubricant to help smooth finish. Allow to cure 8 - 12 hours @ 70 degrees. Lightly sand with circular floor sander to remove any rough areas or trowel marks. **Note: troweling and finishing by hand may not close surface up tightly enough, thus requiring more seal coats to achieve smooth finish.**
  - Grout Coat: Mix 70704/70705 pigmented novolac epoxy at a ratio of 3 parts 70704 to 2 parts 70705 by volume for 3 minutes and apply by roller at a rate of 200 square feet per gallon (8 mils DFT). Allow to cure for 10 - 14 hours @ 70 degrees or until tack free.
  - First & Second Seal Coats: Mix and apply at the same coverage rate as Grout Coat.
5. Summary Application Table for Novolac Trowel
  - After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate/SF	Mils DFT	Cure Time @ 75°F
Primer	70714/70715	Clear	2:1	3 min.	200	8	8 - 12 hrs or until tack free
	40-95 Sand	Natural	Broadcast		0.2 lbs		
Mortar	70714/70715	Color	2:1	3 min.	Specified Thickness		8 - 12 hrs or until tack free
	40-95 Sand	Natural	4:1				
Grout	70714/70715	Color	2:1	3 min.	200	8	8 - 12 hrs or until tack free
1st Seal	70714/70715	Color	2:1	3 min.	200	8	8 - 12 hrs or until tack free
2nd Seal	70714/70715	Color	2:1	3 min.	200	8	8 - 12 hrs or until tack free

For Mortar coverate rates, refer to page 51 of this application manual.



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## Neothane 16

### 1. Materials

- Crack and Joint Filler: 70718/70719 flexible epoxy.
- Fillers: P1934 fumed silica and 86364 aggregate.
- Primer: 70714/70715 clear epoxy.
- Base Coat: 70714/70715 clear or pigmented epoxy.
- Top Coat: 70805/7952 clear or pigmented urethane.
- Texture: 86500 Neogrip spheres.
- Sealant: 70991 or other polyurethane sealant approved by NEOGARD.

### 2. Average Total Dry Film Thickness

- 16 dry mils

### 3. Mixing Instructions

- Read labels.
- Always mix color/pigmented side of material for 3 minutes before adding catalyst.
- Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle. **Note: Take precautions not to whip air into material when mixing, this may cause bubble issues during application. If bubbles occur it will be necessary to de-air with a spike roller.**
  - **Caution: Improper mixing and improper mix ratios can result in curing problems.**

### 4. Application Instructions

- Surface preparation: See the **Surface Preparation** section in the application manual.
- Primer: Mix 70714/70715 clear epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for 3 minutes and apply by roller at a rate of 200 square feet per gallon (8 mils DFT). Primer should be tack free before applying base coat.
- Seal Coat: Mix 70805/7952 clear or pigmented urethane at a ratio of 2 parts 70805 to 1 part 7952 by volume for 3 minutes and apply by roller at a rate of 250 square feet per gallon (4 mils DFT). Allow to cure 8 - 12 hours @ 70 degrees or until tack free.
- Topcoat: Mix 70805/7952 clear or pigmented urethane at a ratio of 2 parts 70805 to 1 part 7952 by volume for 3 minutes and apply by roller at a rate of 250 square feet per gallon (4 mils DFT). Allow to cure for 24 hours @ 70 degrees before allowing foot traffic.
- Optional Textured Finish: For a limited slip resistant surface, add 4 - 6 ounces by volume of Neogrip spheres into 1.5 gallons of mixed 70805/7952 clear or pigmented urethane. Apply using a short nap roller at a rate of 300 square feet per gallon to achieve a nominal thickness of 4 mils WFT. **Note: It may be necessary to periodically mix the material every 10 - 15 minutes to re-suspend the Neogrip spheres because they will settle in the bucket.**
  - **Caution: Installing the textured finish thicker than 4 dry mils will cause the Neogrip spheres to sink into the urethane coating, thus eliminating the desired slip-resistant texture.**

## 5. Summary Application Table for Neothane 16

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate (sf/gal)	Mils DFT	Cure Time @ 75°F
Primer	70714/70715	Clear	2:1	3 min.	200	8	8 - 12 hrs or until tack free
1st Seal	70805/7952	Color	2:1	3 min.	250	4	8 - 12 hrs or until tack free
2nd Seal	70805/7952	Color	2:1	3 min.	250	4	8 - 12 hrs or until tack free

## Neothane 36

### 1. Materials

- Crack and Joint Filler: 70718/70719 flexible epoxy.
- Fillers: P1934 fumed silica and 86364 aggregate.
- Primer: 70714/70715 clear epoxy.
- Base Coat: 70714/70715 clear or pigmented epoxy.
- Top Coat: 70805/7952 clear or pigmented urethane.
- Texture: 86500 Neogrip spheres.
- Sealant: 70991 or other polyurethane sealant approved by NEOGARD.

### 2. Average Total Dry Film Thickness

- 36 dry mils

### 3. Mixing Instructions

- Read labels.
- Always mix color/pigmented side of material for 3 minutes before adding catalyst.
- Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle. **Note: Take precautions not to whip air into material when mixing, this may cause bubble issues during application. If bubbles occur it will be necessary to de-air with a spike roller.**
  - **Caution: Improper mixing and improper mix ratios can result in curing problems.**

### 4. Application Instructions

- Surface preparation: See the **Surface Preparation** section in the application manual.
- Primer: Mix 70714/70715 clear epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for 3 minutes and apply by roller at a rate of 200 square feet per gallon (8 mils DFT). Primer should be tack free before applying base coat.
- Base Coat: For heavy traffic and chemical exposure, mix 70714/70715 clear or pigmented epoxy at a ration of 2 parts 70714 to 1 part 70715 by volume for 3 minutes and apply at a rate of 80 square feet per gallon (20 mils DFT). Allow to cure 8 - 12 hours @ 70 degrees or until tack free.
- Seal Coat: Mix 70805/7952 clear or pigmented urethane at a ratio of 2 parts 70805 to 1 part 7952 by volume for 3 minutes and apply by roller at a rate of 250 square feet per gallon (4 mils DFT). Allow to cure 8 - 12 hours @ 70 degrees or until tack free.
- Topcoat: Mix 70805/7952 clear or pigmented urethane at a ratio of 2 parts 70805 to 1 part 7952 by volume for 3 minutes and apply by roller at a rate of 250 square feet per gallon (4 mils DFT). Allow to cure for 24 hours @ 70 degrees before allowing foot traffic.
- Optional Textured Finish: For a limited slip resistant surface, add 4 - 6 ounces by volume of

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Neogrip spheres into 1.5 gallons of mixed 70805/7952 clear or pigmented urethane. Apply using a short nap roller at a rate of 300 square feet per gallon to achieve a nominal thickness of 4 mils WFT. **Note: It may be necessary to periodically mix the material every 10 - 15 minutes to re-suspend the Neogrip spheres because they will settle in the bucket.**

- **Caution: Installing the textured finish thicker than 4 dry mils will cause the Neogrip spheres to sink into the urethane coating, thus eliminating the desired slip-resistant texture.**

## 5. Summary Application Table for Neothane 36

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate (sf/gal)	Mils DFT	Cure Time @ 75°F
Primer	70714/70715	Clear	2:1	3 min.	200	8	8 - 12 hrs or until tack free
Base Coat	70714/70715	Color	2:1	3 min.	80	20	8 - 12 hrs or until tack free
1st Seal	70805/7952	Color	2:1	3 min.	250	4	8 - 12 hrs or until tack free
2nd Seal	70805/7952	Color	2:1	3 min.	250	4	8 - 12 hrs or until tack free

## Neocrete Trowel

### 1. Materials

- Crack and Joint Filler: 70718/70719 flexible epoxy.
- Resin: 70800 series, gray, red or desert in color.
- Hardener: 70801
- Powder: Neocrete Trowel 70802
- Oderless Reducer: 7055
- Sealant: 70991 or other polyurethane sealant approved by NEOGARD.

### 2. Average Total Dry Film Thickness

- ¼" (250 mils) or desired thickness

### 3. Mixing Instructions

- Read labels.
- Always mix color/pigmented side of material for 3 minutes before adding catalyst.
  - **Caution: Improper mixing and improper mix ratios can result in curing problems.**

### 4. Application Instructions

- Surface preparation: See the **Surface Preparation** section in the application manual.
- Trowel Grade Cementitious Polyurethane Mix: Mix 90 oz. of 70800 series with 63 oz. of 70801 hardener for one minute. Slowly add one bag of 70802 trowel powder to the resin mix and continue to mix blended material for an additional 2 minutes. Spread the polyurethane mix onto the floor using a screed box, gage rake or trowel to desired thickness. Smooth and tightly close the surface with hand or power trowels. Lightly mist 7055 odorless Reducer as a trowel lubricant to help smooth and finish application. Allow to cure 6 - 10 hours @ 70 degrees before allowing

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foot traffic. **Note: One unit of mixed material covers approximately 19 - 22 square feet at 1/4" thickness. Thickness and coverage rate can vary due to finish of substrate.**

## 5. Summary Application Table for Neocrete Trowel

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate	Mils DFT	Cure Time @ 75°F
Base Coat per Bag	70800 Resin 70801 Hardener 70802 Powder	Gray, Red or Desert	90 oz 63 oz 50 lb bag	3 min.	21	250	4 - 6 hrs or until tack free

## Neocrete V

### 1. Materials

- Resin: 70800 series, gray, red or desert in color.
- Hardener: 70801
- Powder: Neocrete V 70803
- Primer: 70714/70715 clear epoxy.
- Aggregate: 86364 silica quartz.

### 2. Average Total Dry Film Thickness

- 1/4" (250 dry mils) or required thickness

### 3. Mixing Instructions

- Read labels.
- Always mix color/pigmented side of material for 3 minutes before adding catalyst.
  - Caution: Improper mixing and improper mix ratios can result in curing problems.**

### 4. Application Instructions

- Surface preparation: See the Surface Preparation section in the application manual.
- Primer: Mix 70714/70715 clear epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for 3 minutes and apply by roller at a rate of 200 square feet per gallon (8 mils DFT) onto wall.
- Aggregate: Lightly broadcast 86364 silica quartz into wet primer to create an anchor profile for the Vertical grade mortar. Primer should be tack free before installing mortar material. **Note: A cove strip may need to be installed prior to the primer and the application of the Vertical mortar to have a clean transition at the top of the wall where the cove stops.**
- Mix 70800 for 3 minutes and then add 70801 hardener and mix for one additional minute.
- Add one bag of 70803 powder to mixed 70800/70801 material and mix until 70803 powder is fully blended.
- Hand trowel on wall using cove trowel to desired thickness. Let cure for 4 - 6 hours.

## 5. Summary Application Table for Neocrete V

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate	Mils DFT	Cure Time @ 75°F
Base Coat per Bag	70800 Resin 70801 Hardener 70803 Powder	Gray, Red or Desert	90 oz 63 oz 50 lb bag	3 min.	21	250	4 - 6 hrs or until tack free

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## Neocrete SL

1. Materials
  - Crack and Joint Filler: 70718/70719 flexible epoxy.
  - Resin: 70800 series, gray, red or desert in color.
  - Hardener: 70801
  - Powder: Neocrete SL 70804
  - Sealant: 70991 or other polyurethane sealant approved by NEOGARD.
2. Average Total Dry Film Thickness
  - 1/8" (125 dry mils) or desired thickness
3. Mixing Instructions
  - Read labels.
  - Always mix color/pigmented side of material for 3 minutes before adding catalyst.
  - Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle.
    - **Caution: Improper mixing and improper mix ratios can result in curing problems.**
4. Application Instructions
  - Surface preparation: See the **Surface Preparation** section in the application manual.
  - Mix 70800 with 70801 for one minute. Slowly add 70804 SL powder into resin mix. Mix blended material for 2 minutes. Pour blended mix on floor and spread using a gauge rake or notched trowel to achieve 1/8" or desired thickness.
  - Immediately back roll with a spike roller to de-air and level the material. Allow to cure 6 - 10 hours @ 70 degrees before allowing foot traffic. **Note: one unit of mixed material covers approximately 28-30 square feet at 1/8". Thickness and coverage rate can vary due to finish of substrate.**
5. Summary Application Table for Neocrete SL
  - After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate	Mils DFT	Cure Time @ 75°F
Base Coat per Bag	70800 Resin 70801 Hardener 70804 Powder	Gray, Red or Desert	90 oz 63 oz 26.5 lb bag	3 min.	30	125	4 - 6 hrs or until tack free

## Neocrete SL Broadcast

1. Materials
  - Crack and Joint Filler: 70718/70719 flexible epoxy.
  - Resin: 70800 series, gray, red or desert in color.
  - Hardener: 70801
  - Powder: 70804 Neocrete SL powder
  - Epoxy: 70714/70715 clear
  - Aggregate: 86364 silica quartz
  - Novolac Epoxy: 70704/70705 pigmented
  - Sealant: 70991 or other urethane sealant approved by NEOGARD.

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2. Average Total Dry Film Thickness
  - 3/16" dry mils
3. Mixing Instructions
  - Read labels.
  - Always mix color/pigmented side of material for 3 minutes before adding catalyst.
  - Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle.
    - **Caution: Improper mixing and improper mix ratios can result in curing problems.**
4. Application Instructions
  - Surface preparation: See the **Surface Preparation** section in the application manual.
  - SL Mix: Mix 70800 with 70801 for one minute. Slowly add 70804 SL powder into resin mix. Mix blended material for 2 minutes or until powder is blended into mix. Pour blended mix on floor and spread using a gage rake or notched trowel to achieve 1/8" or desired thickness.
  - Immediately back roll with a spike roller to de-air and level the material. **Note: One unit of mixed material covers approximately 28-30 square feet at 1/8". Thickness and coverage rate can vary due to finish of substrate.**
  - Aggregate: Immediately broadcast 86364 silica quartz into wet mix until refusal at a rate of 40 pounds per 100 square feet. **Note: Maintain a one to two foot wet edge without any aggregate to allow for a smooth transition to the next application SL mix.** Allow to cure for 6 - 10 hours @ 70 degrees.
  - Once cured, remove excess aggregate and lightly sand with a circular floor sander and #50 grit sandpaper to remove any rough spots. Vacuum thoroughly.
  - Topcoat: Depending on chemical exposure, mix pigmented 70704/70705 Novolac epoxy at a ratio of 3:2 by volume or 70800 (90 oz.) resin & 70801 (64 oz.) hardener for three minutes. Apply 70704/70705 or 70800/70801 with a short nap roller at a rate of 130 square feet per gallon (12 WFT) and allow to cure for 8 - 12 hours @ 70 degrees before allowing foot traffic.
5. Summary Application Table for Neocrete SL Broadcast
  - After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate	Mils DFT	Cure Time @ 75°F
Base Coat per Bag	70800 Resin 70801 Hardener 70804 Powder	Gray, Red or Desert	90 oz 63 oz 26.5 lb bag	3 min.	30	125	4 - 6 hrs or until tack free
Broadcast	40-95 Sand	Natural	Broadcast		0.4 lbs	50	while still fresh
1st Option Seal	70704/70705	Color	3:2	3 min.	130	12	8 - 12 hrs or until tack free
2nd Option Seal	70800/70801	Color	Kit	3 min.	130	12	8 - 12 hrs or until tack free

## Neocrete SL Quartz

1. Materials
  - Crack and Joint Filler: 70718/70719 flexible epoxy.
  - Resin: 70800 series, gray, red or desert in color.
  - Hardener: 70801
  - Powder: 70804 Neocrete SL powder
  - Aggregate: Blended colored quartz



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- Chemical Resistant Urethane: 70815/70816 clear
  - Sealant: 70991 or other polyurethane approved by NEOGARD.
2. Average Total Dry Film Thickness
    - 3/16"
  3. Mixing Instructions
    - Read labels.
    - Always mix color/pigmented side of material for 3 minutes before adding catalyst.
    - Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle.
      - **Caution: Improper mixing and improper mix ratios can result in curing problems.**
  4. Application Instructions
    - Surface preparation: See the **Surface Preparation** section in the application manual.
    - Mix 70800 with 70801 for one minute. Slowly add one bag of 70804 SL powder to 70800/70801 resin mix. Continue mixing for three minutes or until the powder has been uniformly blended. Pour the blended mix onto floor and spread using a gauge rake or notched trowel to desired thickness.
    - Immediately backroll with a spiked roller to de-air and level the material. **Note: one unit of mixed material covers approximately 28-30 square feet at 1/8" thickness. Thickness and coverage rate can vary due to finish of substrate.**
    - Aggregate: Immediately broadcast colored quartz into wet mix until refusal at a rate of 40 pounds per 100 square feet. **Note: Maintain a one to two foot wet edge without any aggregate to allow for a smooth transition to the next application of SL mix.** Allow to cure 8 - 12 hours @ 70 degrees.
    - Once cured, remove excess aggregate and lightly sand with a circular floor sander with #50 grit sandpaper to remove any rough spots. Vacuum thoroughly.
    - Chemical Resistant Urethane Topcoat: Mix 70815/70816 clear at a ratio of 1 part 70815 to 1 part 70816 by volume for three minutes and apply with a short nap roller at a rate of 100 square feet per gallon (14 mils DFT). Allow to cure for 8 - 12 hours @ 70 degrees before allowing foot traffic.
  5. Summary Application Table for Neocrete SL Quartz
    - After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate	Mils DFT	Cure Time @ 75°F
Base Coat per Bag	70800 Resin 70801 Hardener 70804 Powder	Gray, Red or Desert	90 oz 63 oz 26.5 lb bag	3 min.	30	125	4 - 6 hrs or until tack free
Broadcast	Colored Quartz	Selected Blend	Broadcast		0.4 lbs	50	while still fresh
Top	70815/70816	Clear	1:1	3 min.	100	14	8 - 12 hrs or until tack free

## Neocrete SL Flake

1. Materials
  - Crack and Joint Filler: 70718/70719 flexible epoxy.
  - Resin: 70800 series, gray, red or desert in color.
  - Hardener: 70801
  - Powder: 70804 Neocrete SL powder



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- Flake: Blended colored flakes
  - Chemical Resistant Urethane: 70815/70816 clear
  - Sealant: 70991 or other polyurethane sealant approved by NEOGARD.
2. Average Total Dry Film Thickness
- 1/8"
3. Mixing Instructions
- Read labels.
  - Always mix color/pigmented side of material for 3 minutes before adding catalyst.
  - Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle.
    - **Caution: Improper mixing and improper mix ratios can result in curing problems.**
4. Application Instructions
- Surface preparation: See the **Surface Preparation** section in the application manual.
  - Mix 70800 with 70801 for one minute. Slowly add one bag of 70804 SL powder to 70800/70801 resin mix. Continue mixing for three minutes or until the powder has been uniformly blended. Pour the blended mix onto floor and spread with a gauge rake or notched trowel to desired thickness.
  - Immediately backroll with a spiked roller to de-air and level the material. **Note: One unit of mixed material covers approximately 28 - 30 square feet at 1/8" thickness. Thickness and coverage rate can vary due to finish of substrate.**
  - Color Flakes: Immediately broadcast blended colored flakes into wet mix at a rate of 4 - 12 ounces by weight per 100 square feet or until refusal depending on desired finish is achieved. **Note: Maintain a one to two foot wet edge without any flakes to allow for a smooth transition to the next application of SL mix.** Allow to cure for 8-12 hours @ 70 degrees.
  - Once cured, remove excess flakes and lightly sand with a circular floor sander with #50 grit sandpaper to remove any rough spots. Vacuum thoroughly.
  - Chemical Resistant Urethane Topcoat: Mix 70815/70816 clear at a ratio of 1 part 70815 to 1 part 70816 by volume for three minutes and apply with a short nap roller at a rate of 120 square feet per gallon (12 mils DFT). Allow to cure for 8 - 12 hours @ 70 degrees before allowing foot traffic.
5. Summary Application Table for Neocrete SL Flakes
- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate	Mils DFT	Cure Time @ 75°F
Base Coat per Bag	70800 Resin 70801 Hardener 70804 Powder	Gray, Red or Desert	90 oz 63 oz 26.5 lb bag	3 min.	30	125	4 - 6 hrs or until tack free
Broadcast	Colored Micro Flakes	Selected Blend	Broadcast		12 oz/100 sf	16	while still fresh
Top	70815/70816	Clear	1:1	3 min.	120	12	8 - 12 hrs or until tack free

# Flooring Systems

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## SkyGard LD

1. Materials:
  - Crack and Joint Filler: 70718/70719 flexible epoxy.
  - Fillers: 86468 silica flour and 86364 silica quartz.
  - Primer: 70714/70715 clear epoxy.
  - Chemical Resistant Urethanes: 70805/7952 clear or pigmented or 70815/70816 high solids clear.
  - Sealant: 70991 or other polyurethane sealant approved by NEOGARD.
  - Texture Finish: 86500 Neogrip spheres.
2. Average Total Dry Film Thickness
  - 16 dry mils
3. Mixing Instructions
  - Read labels.
  - Always mix color/pigmented side of material for 3 minutes before adding catalyst.
  - Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle. **Note: Take precautions not to whip air into material when mixing, this may cause bubble issues during application. If bubbles occur it will be necessary to de-air with a spike roller.**
    - **Caution: Improper mixing and improper mix ratios can result in curing problems.**
4. Application Instructions
  - Surface preparation: See the **Surface Preparation** section in the application manual.
  - Primer: Mix 70714/70715 clear epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for three minutes and apply with a short nap roller at a rate of 200 square feet per gallon (8 mils DFT). Primer should be tack free before applying topcoat. **Note: Topcoat needs to be applied within 24 hours after application of primer. If topcoat is not applied within this 24 hours, the primer will need to be lightly sanded, vacuumed and solvent wiped.**
  - Topcoat:
    - When using 70805/7952 clear or pigmented urethane as a topcoat, mix 2 parts 70805 to 1 part 7952 by volume for three minutes and apply with a short nap roller at a rate of 230 square feet per gallon (4 mils DFT). Allow to cure 8 - 12 hours @ 70 degrees or until tack free. **Using 70805/7952 requires a second coat. Apply second coat at the same coverage rate as above. Note: This will be the final coat unless a textured finish is desired.**
    - When using 70815/70816 clear urethane as a topcoat, mix 1 part 70815 to 1 part 70816 by volume for three minutes and apply with a short nap roller at a rate of 180 square feet per gallon (8 mils DFT). Allow to cure for 24 hours @ 70 degrees before allowing foot traffic. **Note: When using 70815/70816 this is the final topcoat unless a textured finish is desired. If a textured finish is desired, the 70815/70816 must be lightly sanded and then solvent wiped. If this procedure is NOT STRICTLY FOLLOWED, inner coat delamination will occur.**
  - Optional Textured Finish:
    - For 70805/7952 clear or pigmented urethane, mix 2 parts 70805 to 1 part 7952 by volume for three minutes. Add 4 - 6 ounces of Neogrip spheres to 1.5 gallons of mixed 70805/7952 and mix for 2 minutes. Apply at a rate of 240 - 270 square feet per gallon (3.5 - 3.9 mils DFT) and allow to cure for 24 hours. **Caution: Installing the textured finish thicker than 4 dry mils will cause the Neogrip spheres to sink into the urethane coating, thus eliminating the desired slip-resistant texture.**

# Flooring Systems

- For 70815/70816 clear urethane, mix 1 part 70815 to 1 part 70816 by volume for three minutes. Add 4 - 6 ounces of Neogrip spheres to 2 gallons of mixed 70815/70816 and mix for 2 minutes. Apply at a rate of 370 - 400 square feet per gallon (3.5 - 3.9 mils DFT) and allow to cure for 24 hours. **Caution: Installing the textured finish thicker than 4 dry mils will cause the Neogrip spheres to sink into the urethane coating, thus eliminating the desired slip-resistant texture.**

## 5. Summary Application Table for SkyGard LD

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate/SF	Mils DFT	Cure Time @ 75°F
Primer	70714/70715	Clear	2:1	3 min.	200	8	8 - 12 hrs or until tack free
1st Seal	70805/7952 or 70815/70816	Color/Clear	2:1 or 1:1	3 min.	230 or 180	4 or 8	8 - 12 hrs or until tack free
2nd Seal*	70805/7952	Color/Clear	2:1	3 min.	230	4	8 - 12 hrs or until tack free

\* 2nd seal coat is required if 70805/7952 was applied as the 1st seal coat.

## SkyGard MD

### 1. Materials

- Crack and Joint Filler: 70718/70719 flexible epoxy
- Fillers: 86468 silica flour and 86364 silica quartz.
- Primer: 70714/70715 clear epoxy.
- Base Coat: 70714/70715 clear or pigmented epoxy.
- Chemical Resistant Urethanes: 70805/7952 clear or pigmented or 70815/70816 high solids clear.
- Sealant: 70991 or other polyurethane sealant approved by NEOGARD.
- Textured Finish: 86500 Neogrip spheres.

### 2. Average Total Dry Film Thickness

- 36 dry mils

### 3. Mixing Instructions

- Read labels.
- Always mix color/pigmented side of material for 3 minutes before adding catalyst.
- Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle. **Note: Take precautions not to whip air into material when mixing, this may cause bubble issues during application. If bubbles occur it will be necessary to de-air with a spike roller.**
  - **Caution: Improper mixing and improper mix ratios can result in curing problems.**

### 4. Application Instructions

- Surface preparation: See the **Surface Preparation** section in the application manual.
- Primer: Mix 70714/70715 clear epoxy at a rate of 2 parts 70714 to 1 part 70715 by volume for three minutes and apply with a short nap roller at 200 square feet per gallon (8 mils DFT). Primer should be tack free before applying base coat. **Note: Base coat needs to be applied within 24 hours of the primer application. If base coat is not applied within 24 hours, the primer will need to be lightly sanded with 60 - 80 grit sandpaper, vacuumed thoroughly and solvent wiped.**

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- Base Coat: Mix 70714/70715 pigmented epoxy at a rate of 2 parts 70714 to 1 part 70715 by volume for three minutes and apply at a rate of 80 square feet per gallon (20 mils DFT) with a 3/8" nap roller, notched squeegee or notched trowel and allow to cure for 8 - 12 hours @ 70 degrees.
- Topcoat:
  - When using 70805/7952 clear or pigmented urethane as a topcoat, mix 2 parts 70805 to 1 part 7952 by volume for three minutes and apply with a short nap roller at a rate of 230 square feet per gallon (4 mils DFT). Allow to cure 8 - 12 hours @ 70 degrees or until tack free. **Using 70805/7952 requires a second coat. Apply second coat at the same coverage rate as above. Note: This will be the final coat unless a textured finish is desired.**
  - When using 70815/70816 clear urethane as a topcoat, mix 1 part 70815 to 1 part 70816 by volume for three minutes and apply with a short nap roller at a rate of 180 square feet per gallon (8 mils DFT). Allow to cure for 24 hours @ 70 degrees before allowing foot traffic. **Note: When using 70815/70816 this is the final topcoat unless a textured finish is desired. If a textured finish is desired, the 70815/70816 must be lightly sanded and then solvent wiped. If this procedure is NOT STRICTLY FOLLOWED, inner coat delamination will occur.**
- Optional Textured Finish:
  - For 70805/7952 clear or pigmented urethane, mix 2 parts 70805 to 1 part 7952 by volume for three minutes. Add 4 - 6 ounces of Neogrip spheres to 1.5 gallons of mixed 70805/7952 and mix for 2 minutes. Apply at a rate of 240 - 270 square feet per gallon (3.5 - 3.9 mils DFT) and allow to cure for 24 hours. **Caution: Installing the textured finish thicker than 4 dry mils will cause the Neogrip spheres to sink into the urethane coating, thus eliminating the desired slip-resistant texture.**
  - For 70815/70816 clear urethane, mix 1 part 70815 to 1 part 70816 by volume for three minutes. Add 4 - 6 ounces of Neogrip spheres to 2 gallons of mixed 70815/70816 and mix for 2 minutes. Apply at a rate of 370 - 400 square feet per gallon (3.5 - 3.9 mils DFT) and allow to cure for 24 hours. **Caution: Installing the textured finish thicker than 4 dry mils will cause the Neogrip spheres to sink into the urethane coating, thus eliminating the desired slip-resistant texture.**

## 5. Summary Application Table for SkyGard MD

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate/SF	Mils DFT	Cure Time @ 75°F
Primer	70714/70715	Clear	2:1	3 min.	200	8	8 - 12 hrs or until tack free
Base	70714/70715	Color	2:1	3 min.	80	20	8 - 12 hrs or until tack free
1st Seal	70805/7952 or 70815/70816	Color/Clear	2:1 or 1:1	3 min.	230 or 180	4 or 8	8 - 12 hrs or until tack free
2nd Seal*	70805/7952	Color/Clear	2:1	3 min.	230	4	8 - 12 hrs or until tack free

\* 2nd seal coat is required if 70805/7952 was applied as the 1st seal coat.

## SkyGard HD

1. Materials:
  - Crack and Joint Filler: 70718/70719 flexible epoxy.
  - Fillers: 86468 silica flour

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- Aggregate: 86364 silica sand or #20/40 mesh aluminum oxide.
  - Primer: 70714/70715 clear 100% solids epoxy.
  - Base Coat: 70714/70715 pigmented epoxy.
  - Chemical Resistant Urethanes: 70805/7952 clear or pigmented or 70815/70816 high solids clear.
  - Sealant: 70991 other polyurethane sealant approved by NEOGARD.
  - Textured Finish: 86500 Neogrip spheres.
2. Average Total Dry Film Thickness
- 56 dry mils
3. Mixing Instructions
- Read labels.
  - Always mix color/pigmented side of material for 3 minutes before adding catalyst.
  - Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle. **Note: Take precautions not to whip air into material when mixing, this may cause bubble issues during application. If bubbles occur it will be necessary to de-air with a spike roller.**
    - **Caution: Improper mixing and improper mix ratios can result in curing problems.**
4. Application Instructions
- Surface preparation: See the **Surface Preparation** section in the application manual.
  - Primer: Mix 70714/70715 clear epoxy at a rate of 2 parts 70714 to 1 part 70715 by volume for three minutes and apply with a short nap roller at 200 square feet per gallon (8 mils DFT). Primer should be tack free before applying base coat. **Note: Base coat needs to be applied within 24 hours of primer application. If base coat is not applied within 24 hours, primer needs to be lightly sanded with 60 - 80 grit sandpaper, vacuumed and solvent wiped.**
  - Base/Slurry Coat: Mix 70714/70715 pigmented epoxy at a rate of 2 parts 70714 to 1 part 70715 for three minutes. Add 86468 silica flour at a ratio of 1:1 with mixed epoxy. Mix to a smooth consistency and spread mix using a ¼" notched trowel or squeegee at a rate of 40 square feet per gallon (40 mils DFT). Allow to self level and then de-air with a spiked roller. Allow to cure 8 - 12 hours @ 70 degrees or until tack free.
  - Topcoat:
    - When using 70805/7952 clear or pigmented urethane as a topcoat, mix 2 parts 70805 to 1 part 7952 by volume for three minutes and apply with a short nap roller at a rate of 230 square feet per gallon (4 mils DFT). Allow to cure 8 - 12 hours @ 70 degrees or until tack free. **Using 70805/7952 requires a second coat. Apply second coat at the same coverage rate as above. Note: This will be the final coat unless a textured finish is desired.**
    - When using 70815/70816 clear urethane as a topcoat, mix 1 part 70815 to 1 part 70816 by volume for three minutes and apply with a short nap roller at a rate of 180 square feet per gallon (8 mils DFT). Allow to cure for 24 hours @ 70 degrees before allowing foot traffic. **Note: When using 70815/70816 this is the final topcoat unless a textured finish is desired. If a textured finish is desired, the 70815/70816 must be lightly sanded and then solvent wiped. If this procedure is NOT STRICTLY FOLLOWED, inner coat delamination will occur.**
  - Optional Textured Finish:
    - For 70805/7952 clear or pigmented urethane, mix 2 parts 70805 to 1 part 7952 by volume for three minutes. Add 4 - 6 ounces of Neogrip spheres to 1.5 gallons of mixed 70805/7952 and mix for 2 minutes. Apply at a rate of 240 - 270 square feet per gallon (3.5 - 3.9 mils DFT) and allow to cure for 24 hours. **Caution: Installing the textured finish thicker than 4 dry mils**

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**will cause the Neogrip spheres to sink into the urethane coating, thus eliminating the desired slip-resistant texture.**

- For 70815/70816 clear urethane, mix 1 part 70815 to 1 part 70816 by volume for three minutes. Add 4 - 6 ounces of Neogrip spheres to 2 gallons of mixed 70815/70816 and mix for 2 minutes. Apply at a rate of 370 - 400 square feet per gallon (3.5 - 3.9 mils DFT) and allow to cure for 24 hours. **Caution: Installing the textured finish thicker than 4 dry mils will cause the Neogrip spheres to sink into the urethane coating, thus eliminating the desired slip-resistant texture.**

## 5. Summary Application Table for SkyGard HD

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate/SF	Mils DFT	Cure Time @ 75°F
Primer	70714/70715	Clear	2:1	3 min.	200	8	8 - 12 hrs or until tack free
Base/Slurry	70714/70715	Color	2:1	3 min.	72	22	8 - 12 hrs or until tack free
	#200 Silica Flour	Natural	Mixed		0.2 lbs	19	
1st Seal	70805/7952 or 70815/70816	Color/Clear	2:1 or 1:1	3 min.	230 or 180	4 or 8	8 - 12 hrs or until tack free
2nd Seal*	70805/7952	Color/Clear	2:1	3 min.	230	4	8 - 12 hrs or until tack free

\* 2nd seal coat is required if 70805/7952 was applied as the 1st seal coat.

## SkyGard MRO

### 1. Materials

- Crack and Joint Filler: 70718/70719 flexible epoxy.
- Fillers: P1934 silica flour and 86364 silica quartz.
- Base Coat: 70714/70715 clear 100% solids epoxy.
- Aggregate: 86468 silica flour, 86364 silica quartz or #20/40 mesh Aluminum Oxide aggregate.
- First Seal Coat: 70714/70715 clear or pigmented epoxy.
- Second Seal Coat: 70714/70715 pigmented epoxy. For ultimate chemical resistance, use 70805/7952 clear or pigmented CRU or high solids 70815/70816 clear CRU.
- Sealant: 70991 or other polyurethane sealant approved by NEOGARD.

### 2. Average Total Dry Film Thickness

- 80 dry mils or more

### 3. Mixing Instructions

- Read labels.
- Always mix color/pigmented side of material for 3 minutes before adding catalyst.
- Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle. **Note: Take precautions not to whip air into material when mixing, this may cause bubble issues during application. If bubbles occur it will be necessary to de-air with a spike roller.**
  - **Caution: Improper mixing and improper mix ratios can result in curing problems.**

### 4. Application Instructions

- Surface preparation: See the **Surface Preparation** section in the application manual.
- Base Coat: Mix 70714/70715 at a ratio of 2 parts 70714 to 1 part 70715 by volume for three



minutes. Add 86468 silica flour at a ratio of 1:1 by volume with mixed epoxy and mix to a smooth consistency. Spread mix using a 1/4" notched trowel or squeegee at a rate of 40 square feet per gallon (40 mils DFT). Allow to self level and then de-air with a spiked roller.

- Aggregate: Broadcast 86364 silica quartz or #20/40 mesh Aluminum Oxide into wet epoxy mix until refusal at a rate of one pound per square foot. Maintain a one to two foot wet edge without any aggregate to allow for a smooth transition to the next pass of self-level epoxy matrix. Allow to cure 8 - 12 hours @ 70 degrees. Once cured, remove any excess aggregate and lightly sand with a circular floor sander with #50 grit sandpaper to remove any rough spots. **Note: To achieve a nominal thickness of 80 mils or required thickness, repeat the above procedure.**
- First Seal Coat: Mix 70714/70715 pigmented epoxy at a rate of 2 parts 70714 to 1 part 70715 by volume for three minutes and apply seal coat with a short nap roller at a rate of 200 square feet per gallon (8 mils DFT). Allow to cure for 24 hours @ 70 degrees.
- Second Seal Coat:
  - For general conditions, mix 70714/70715 pigmented epoxy at a rate of 2 parts 70714 to 1 part 70715 by volume for 3 minutes and apply with a short nap roller at a rate of 200 square feet per gallon (8 mils DFT). Allow to cure for 24 hours @ 70 degrees before allowing foot traffic.
  - **For SKYDROL and High Chemical Resistance**, mix 70805/7952 clear or pigmented urethane at a rate of 2 parts 70805 to 1 part 7952 by volume for 3 minutes and apply with a short nap roller at a rate of 200 square feet per gallon (4 mils DFT) or mix 70815/70816 clear at a rate of 1 part 70815 to 1 part 70816 by volume for 3 minutes and apply at a rate of 285 square feet per gallon (5 mils DFT). Allow to cure for 24 hours @ 70 degrees before allowing foot traffic.

## 5. Summary Application Table for SkyGuard MRO

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate/SF	Mils DFT	Cure Time @ 75°F
Base/Slurry	70714/70715	Color	2:1	3 min.	72	22	8 - 12 hrs or until tack free
	#200 Silica Flour	Natural	Mixed		0.22 lbs	18	
	40-95 sand or 20-40 Aluminum Oxide	Natural	Broadcast		1.0 lbs	35	
Seal	70714/70715	Color	2:1	3 min.	200	8	8 - 12 hrs or until tack free
Standard Finish	70714/70715	Color	2:1	3 min.	200	8	8 - 12 hrs or until tack free
High Chemical Resistant Finish	70805/7952 or 70815/70816	Color/Clear	2:1 or 1:1	3 min.	200 or 285	5	8 - 12 hrs or until tack free

## NeoQuartz Broadcast

### 1. Materials

- Crack and Joint Filler: 70718/70719 flexible epoxy.
- Fillers: P1934 fumed silica and 86364 aggregate.
- Base Coat: 70714/70715 clear 100% solids epoxy.
- Aggregate: Colored quartz aggregate.
- Seal Coat: 70734/70735 clear epoxy.
- Exterior Seal Coat: 70805/7952 or Acrylthane HS2 /99951 clear.
- Sealant: 70991 or other polyurethane sealant approved by NEOGARD.



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## 2. Average Total Dry Film Thickness

- 1/8" (125) dry mils

## 3. Mixing Instructions

- Read labels.
- Always mix color/pigmented side of material for 3 minutes before adding catalyst.
- Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle. **Note: Take precautions not to whip air into material when mixing, this may cause bubble issues during application. If bubbles occur it will be necessary to de-air with a spike roller.**
  - **Caution: Improper mixing and improper mix ratios can result in curing problems.**

## 4. Application Instructions

- Surface preparation: See the **Surface Preparation** section in the application manual.
- Base Coat: Mix 70714/70715 clear epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for 3 minutes and apply at a rate of 80 square feet per gallon (20 mils DFT) with a notched squeegee or notched trowel. Backroll with a short nap roller to ensure even coverage.
- Aggregate: Broadcast blended colored quartz into wet epoxy base coat. Leave a one to two foot wet edge without aggregate to allow for a smooth transition to the next pass of neat epoxy. Allow to cure for 8 - 12 hours @ 70 degrees. Once cured, remove excess aggregate and lightly sand with a circular floor sander and #50 grit sandpaper to remove any rough spots. **Note: Each broadcast achieves a nominal thickness of 1/16". Repeat the above process to achieve 1/8" or desired thickness.**
- First Seal Coat: Mix 70734/70735 clear at a ratio of 2 parts 70734 to 1 part 70735 by volume for three minutes and apply with a short nap roller at a rate of 160 square feet per gallon (10 mils DFT). Allow to cure for 10 - 14 hours @ 70 degrees or until tack free.
- Second Seal Coat:
  - Interior Applications: Mix 70734/70735 clear at a ratio of 2 parts 70734 to 1 part 70735 by volume for 3 minutes and apply with a short nap roller at a rate of 200 square feet per gallon (8 mils DFT). Allow to cure for 24 hours @ 70 degrees before allowing foot traffic.
  - Exterior Applications: Mix 70805/7952 clear at a ratio of 2 parts 70805 to 1 part 7952 by volume or Acrylthane HS2/99951 at a ratio of 3 parts HS2 Resin to 1 part 99951 by volume for 3 minutes. Apply second seal coat at 200 square feet per gallon (5 mils DFT) and allow to cure for 24 hours @ 70 degrees before allowing foot traffic. **Note: For exterior applications, use UV stable colored quartz and 70805/7952 clear as the final coat.**

## 5. Summary Application Table for NeoQuartz Broadcast

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate/SF	Mils DFT	Cure Time @ 75°F
1st Base	70714/70715	Clear	2:1	3 min.	80	20	8 - 12 hrs or until tack free
	#40 Size	Color Quartz	Broadcast		0.5 lbs	30	
2nd Base	70714/70715	Clear	2:1	3 min.	80	20	8 - 12 hrs or until tack free
	#40 Size	Color Quartz	Broadcast		0.5 lbs	30	
1st Seal	70734/70735	Crystal Clear	2:1	3 min.	160	10	8 - 12 hrs or until tack free
2nd Seal	70734/70735	Crystal Clear	2:1	3 min.	200	8	8 - 12 hrs or until tack free

Each base coat provides 1/16" of thickness. For exterior applications, use UV stable colored quartz and CRU 70805/7952 clear as final coat.

## NeoQuartz Trowel

### 1. Materials:

- Crack and Joint Filler: 70718/70719 flexible epoxy.
- Fillers: P1934 fumed silica and 86364 silica quartz.
- Primer: 70714/70715 clear 100% solids epoxy.
- Trowel Grade: 70734/70735 clear epoxy.
- Aggregate: Blended colored quartz.
- Grout Coat: 70734/70735 clear epoxy.
- Seal Coat: 70734/70735 clear epoxy.
- Exterior Seal Coat: 70805/7952 clear urethane or Acrylithane HS2/99951 clear.
- Sealant: 70991 or other polyurethane sealant approved by NEOGARD.

### 2. Average Total Dry Film Thickness

- 1/4" (250 dry mils) or required thickness

### 3. Mixing Instructions

- Read labels.
- Always mix color/pigmented side of material for 3 minutes before adding catalyst.
- Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle. **Note: Take precautions not to whip air into material when mixing, this may cause bubble issues during application. If bubbles occur it will be necessary to de-air with a spike roller.**
  - **Caution: Improper mixing and improper mix ratios can result in curing problems.**

### 4. Application Instructions

- Surface preparation: See the **Surface Preparation** section in the application manual.
- Primer: Mix 70714/70715 clear epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for three minutes and apply with a short nap roller at a rate of 200 square feet per gallon (8 mils DFT). Immediately lightly broadcast 86364 aggregate into wet primer to create an anchor profile for the trowel grade material. Primer should be tack free before installing trowel grade material.
- Trowel Grade Mortar: Mix 70734/70735 epoxy at a ratio of 2 parts 70734 to 1 part 70735 by volume for three minutes. Slowly add blended colored quartz aggregate at a ratio of 4:1 by volume to resin mix. Screed, rake or trowel mortar mix to desired thickness. Smooth and tightly close surface with a power trowel or hand trowel. Lightly mist mineral spirits or 7055 odorless reducer as a trowel lubricant to help smooth off surface. Allow to cure for 8 - 12 hours @ 70 degrees. When cured, lightly sand floor with a circular floor sander using #50 grit sandpaper to remove any rough areas or trowel marks.
- Grout Coat: Mix 70734/70735 clear epoxy at a ratio of 2 parts 70734 to 1 part 70735 by volume for three minutes and apply with a short nap roller at a rate of 200 square feet per gallon (8 mils DFT). Allow to cure for 10 - 14 hours @ 70 degrees or until tack free.
- Seal Coat: Mix 70734/70735 clear epoxy at a ratio of 2 parts 70734 to 1 part 70735 by volume for three minutes and apply with a short nap roller at a rate of 200 square feet per gallon (8 mils DFT). Allow to cure for 10 - 14 hours @ 70 degrees or until tack free.
- Second Seal Coat:
  - Interior Applications: Mix 70734/70735 clear at a ratio of 2 parts 70734 to 1 part 70735 by volume for three minutes and apply with a short nap roller at a rate of 200 square feet per gallon (8 mils DFT). Allow to cure for 24 hours @ 70 degrees before allowing foot traffic.
  - Exterior Applications: Mix 70805/7952 clear at a ratio of 2 parts 70805 to 1 part 7952 by

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volume or Acrylthane HS2/99951 at a ratio of 3 parts HS2 Resin to 1 part 99951 by volume for three minutes. Apply second seal coat at 200 square feet per gallon (5 mils DFT) and allow to cure for 24 hours @ 70 degrees before allowing foot traffic. **Note: For exterior applications, use UV stable colored quartz and 70805/7952 clear as the final coat.**

## 5. Summary Application Table for NeoQuartz Trowel

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate/SF	Mils DFT	Cure Time @ 75°F
Primer	70714/70715	Clear	2:1	3 min.	200	8	8 - 12 hrs or until tack free
	40-95 Sand	Natural	Broadcast		0.2 lbs		
Mortar	70734/70735	Crystal Clear	2:1	3 min.	Specified Thickness		8 - 12 hrs or until tack free
	#40 Size	Color Quartz	4:1				
Grout	70734/70735	Crystal Clear	2:1	3 min.	200	8	
1st Seal	70734/70735	Crystal Clear	2:1	3 min.	200	10	8 - 12 hrs or until tack free
2nd Seal	70734/70735	Crystal Clear	2:1	3 min.	200	8	8 - 12 hrs or until tack free

For Mortar coverate rates, refer to page 51 of this application manual. For exterior applications, use UV stable colored quartz and CRU 70805/7952 clear as final coat.

## Neoflake

### 1. Materials

- Crack Filler: 70718/70719 flexible epoxy.
- Primer: 70714/70715-09 clear 100% solids epoxy.
- Base Coat: 70714/70715-09 pigmented epoxy.
- Colored Chips: Integrally colored, random sized chips. Consult NEOGARD for source of supply.
- Topcoat: 70734/70735 clear epoxy.
- Optional Textured Finish: 86500 Neogrip spheres.
- Sealant: 70991 or other polyurethane sealant approved by NEOGARD.

### 2. Average Total Dry Film Thickness

- 40 Dry mils

### 3. Mixing Instructions

- Read labels.
- Always mix color/pigmented side of material for 3 minutes before adding catalyst.
- Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle. **Note: Take precautions not to whip air into material when mixing, this may cause bubble issues during application. If bubbles occur it will be necessary to de-air with a spike roller.**
  - Caution: Improper mixing and improper mix ratios can result in curing problems.**

### 4. Application Instructions

- Surface preparation: See the **Surface Preparation** section in the application manual.
- Primer: Mix 70714/70715-09 clear epoxy at a ratio of 2 parts 70714 to 1 part 70715-09 by volume for 3 minutes and apply with a short nap roller at a rate of 200 square feet per gallon (8 mils DFT). Allow to cure for 24 hours @ 70 degrees. Primer should be tack free before applying base coat.

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- Base Coat: Mix 70714/70715-09 pigmented epoxy at a ratio of 2 parts 70714 to 1 part 70715-09 by volume for 3 minutes and apply with a roller at a rate of 100 square feet per gallon (16 mils DFT). For a white base use 70734-01/70735. Backroll material to ensure a uniform coverage. De-air and finish leveling with a spiked roller.
- Color Chips: Broadcast colored chips into wet base coat until desired pattern is achieved. This will require walking into the wet material using spiked shoes. Depending on the desired pattern, broadcast between 4 to 6 ounces by weight of blended colored chips per 100 square feet. When cured, lightly sand with a circular floor sander using #50 grit sandpaper to remove any rough spots and vacume thoroughly.
- First Seal Coat: Mix 70734/70735 clear epoxy at a ratio of 2 parts 70734 to 1 part 70735 by volume for 3 minutes and apply with a short nap roller at a rate of 200 square feet per gallon (8 mils DFT). Allow to cure for 10 - 14 hours @ 70 degrees.
- Second Seal Coat: Mix 70734/70735 clear epoxy at a ratio of 2 parts 70734 to 1 part 70735 by volume for 3 minutes and apply with a short nap roller at a rate of 200 square feet per gallon (8 mils DFT). Allow to cure for 10 - 14 hours @ 70 degrees.
- Optional Textured Finish: For a limited slip resistant finish, a third coat of 70734/70735 clear epoxy must be applied. Add 4 - 6 ounces of Neogrip spheres by volume to 1.5 gallons of mixed 70734/70735 and mix for 3 minutes. Apply with a short nap roller at a rate of 350 - 400 square feet per gallon (4 mils DFT) and allow to cure for 24 hours @ 70 degrees before allowing foot traffic.
  - **Caution: Installing the textured finish thicker than 4 dry mils will cause the Neogrip spheres to sink into the epoxy coating, thus eliminating the desired slip-resistant texture.**

## 5. Summary Application Table for Neoflake

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate (sf/gal)	Mils DFT	Cure Time @ 75°F
Primer	70714/70715-09	Clear	2:1	3 min.	200	8	8 - 12 hrs or until tack free
Base	70714/70715-09	Clear	2:1	3 min.	100	16	8 - 12 hrs or until tack free
	PVC Flakes	Colors			6 oz/100 sf	30	
1st Seal	70734/70735	Clear	2:1	3 min.	200	8	8 - 12 hrs or until tack free
Top	70734/70735	Clear	2:1	3 min.	200	8	8 - 12 hrs or until tack free

**Important Note:** If you choose to use a white base background, then use 70734-01/70735.

## WallGard

### 1. Materials

- Primer: 70714/70715 clear 100% solids epoxy.
- Base Coat: 70724/70715 pigmented high build epoxy.
- Optional Second Base Coat: 70724/70715 pigmented high build epoxy.
- Seal Coat: Deco Glaze pigmented waterborne epoxy acrylic coating.
- Top Coat: Deco Glaze pigmented acrylic or 70815/70816 high solids clear urethane.

### 2. Average Total Dry Film Thickness

- 25 - 41 dry mils

# Flooring Systems

## 3. Mixing Instructions

- Read labels.
- Always mix color/pigmented side of material for 3 minutes before adding catalyst.
- Mix all materials using a slow speed drill (600 rpm max.) and jiffy mixing paddle.
  - **Caution: Improper mixing and improper mix ratios can result in curing problems.**

## 4. Application Instructions

- Primer: Mix 70714/70715 clear epoxy at a ratio of 2 parts 70714 to 1 part 70715 by volume for 3 minutes and apply with a short nap roller at a rate of 320 square feet per gallon (5 mils DFT). Allow to cure for 8 - 12 hours @ 70 degrees or until tack free.
- Base Coat: Mix 70724/70715 pigmented epoxy at a ratio of 3 parts 70724 to 1 part 70715 by volume for 3 minutes and apply with a roller at a rate of 100 square feet per gallon (16 mils DFT). Allow to cure for 8 - 12 hours.
- Optional Second Base Coat: For heavy mechanical abuse or if specified, embed re-enforced fiber glass mesh into wet first base coat. After base coat has cured, mix 70724/70715 pigmented epoxy at a ratio of 3 parts 70724 to 1 part 70715 by volume for 3 minutes and apply second base coat with a roller at a rate of 100 square feet per gallon (16 mils DFT). Allow to cure for 8 - 12 hours or until tack free.
- Seal Coat: Thoroughly mix Deco Glaze before using. Apply with a short nap roller at a rate of 400 square feet per gallon (1.8 mils DFT). Allow to cure for 4 hours @ 70 degrees or until tack free.
- Topcoat: Thoroughly mix Deco Glaze before using. Apply with a short nap roller at a rate of 400 square feet per gallon (1.8 mils DFT). Allow to cure for 4 hours @ 70 degrees or until tack free. **Note: Deco Glaze topcoat is not recommended for use in areas with constant high humidity or moisture, such as showers. If these conditions are present a final topcoat of 70815/70816 high solids urethane should be applied over the Deco Glaze at a rate of 400 square feet per gallon (3.5 mils DFT). Allow to cure for 8 - 12 hours.**

## 5. Summary Application Table for WallGard

- After proper surface prep, patching and proper application conditions, proceed to apply...

Coat	Product	Color	Mix Ratio	Mix Time	Coverage Rate (sf/gal)	Mils DFT	Cure Time @ 75°F
Primer	70714/70715	Clear	2:1	3 min.	320	5	8 - 12 hrs or until tack free
Base	70724/70715	Color	3:1	3 min.	100	16	8 - 12 hrs or until tack free
Reinforced Base (Optional)	70724/70715	Clear	2:1	3 min.	100	16	8 - 12 hrs or until tack free
	#4 Fiberglass Mesh	Natural					
Std. Seal	Deco Glaze	Color	N/A	3 min.	400	2	2 - 4 hrs or until tack free
Std. Top	Deco Glaze	Color	N/A	3 min.	400	2	2 - 4 hrs or until tack free
High Chemical Resistant Finish	70805/7952 or 70815/70816	Clear	2:1 or 1:1	3 min.	320 or 400	3 to 4	8 - 12 hrs or until tack free



# Epoxy Mortar Coverage Rates

Epoxy Mortar Yield per Gallon of Epoxy Resin Binder

Epoxy Binder Gallons	Aggregate Gallons*	Mortar Gallons
1	1	1.6
1	2	2.2
1	3	2.8
1	4	3.4
1	5	4.0

\*Silica quartz aggregate weighs approximately 12-14 lbs. per gallon depending on mesh size and amount of air void space.

Coverage per Gallon of Epoxy Mortar  
(Epoxy Resin Binder Plus Aggregate)

Thickness in Inches	Coverage, Square Feet
1/16	25.7
1/8	12.8
3/16	8.6
1/4	6.4
3/8	4.3
1/2	3.2

Coverage for Coating or Membranes

Thickness of Coating Applied (1000 mils = 1 inch)	Coverage per U.S. Gallon 100% Solids Material
1/4 in. = 250 mils	6.4 sq ft
3/16 in. = 187.5 mils	8.5 sq ft
1/8 in. = 125 mils	12.8 sq ft
100 mils	16.0 sq ft
1/16 in. = 62.5 mils	25.5 sq ft
50 mils	32.0 sq ft
1/32 in. = 31.25 mils	51.0 sq ft
20 mils	80.0 sq ft
1/64 in. = 15.625 mils	102.0 sq ft
10 mils	160.0 sq ft
5 mils	320.0 sq ft
1 mil	1600.0 sq ft

If coating contains a solvent which will evaporate, thickness of coating will be reduced by sample percentage as solvent loss.





# Coverage Rate

## Theoretical vs. Actual

Theoretical coverages are those calculated for glass-smooth surfaces with no allowances made for loss. Manufacturers publish theoretical coverages instead of actual coverages because they cannot anticipate job or surface conditions. Therefore, published coverage rates should only be used as a guide for estimating material requirements for a given job.

Actual coverage will be less than theoretical coverage. Surface texture, temperature, container residue, applicator technique, etc. will directly affect the amount of coating material required to meet the designed in-place dry film thickness (DFT). Therefore, it is very important that additional material be added to the theoretical quantities to ensure that the proper coating thickness is applied. Items to consider are:

- Surface Prep - Even though the surface texture appears to be fairly smooth, this surface can require 5% to 15% additional material to the theoretical coverage rate.
- Application Loss - A factor must be added to the theoretical coverage rate to cover losses due to material left in containers, equipment problems, environmental problems, etc. Use a percentage factor of between 3% to 10%, depending on the contractor's experience and efficiency.

### Calculating Theoretical Coverage (thickness)

Any liquid, when applied at a thickness of one mil (1/1000 inch) will cover 1,601 sq. ft. of area per gallon. Please use 1600 sq. ft. per gallon to simplify the estimating process.

CR = Coverage Rate	DFT = WFT * %S
DFT = Dry Film Thickness (dry mils)	WFT = DFT / %S
WFT = Wet Film Thickness (wet mils)	CR = 1600 / WFT
%S = % Solids by Volume	

A material that has a 100% solid content produces the same film thickness when it is in wet mils or dry mils. 16 wet mils = 16 multiplied by 100% solids = 16 dry

### Calculating Actual Coverage

To determine total material requirements for a job, add estimated losses.





# Product Mixing Instructions

## Considerations

1. Read labels and application manual prior to mixing materials.
2. All thinning of materials, if required, should be done after mixing.
3. On two component products, always pre-mix the color side thoroughly (3 to 5 minutes) prior to the addition of the catalyst.
4. Mix product for a minimum 3 minutes.
5. Watch mixing ratios on two components products. An improper mixing ratio may result in curing problems.
6. Use a low speed (450 rpm) drill and a Jiffy® mixer. **Note: Use a low-medium speed drill and a Jiffy® Mixer (shown below) to mix all materials thoroughly. Mixing at too high rate of speed or with the wrong mixer can introduce air bubbles into the coating. These bubbles may develop into blisters during application.**





# General Considerations

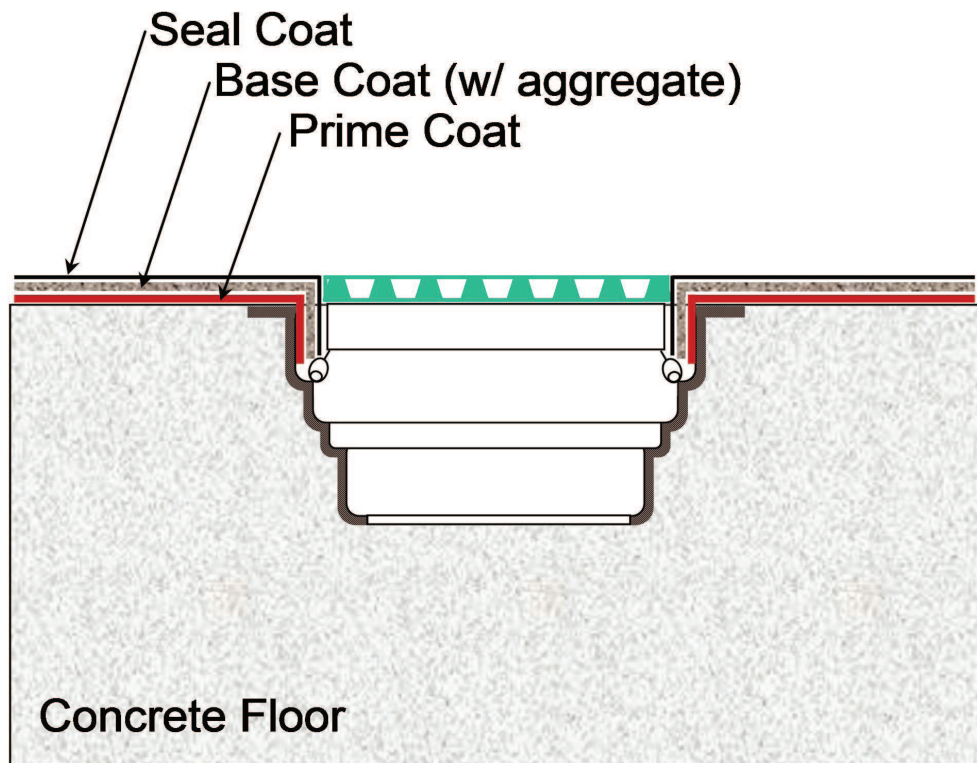
1. A vapor barrier of 10 to 15 mils should be included in the design of the concrete substrate.
2. Substrate temperature should always be above 60°F (17°C) to apply the 100% solids epoxy and urethanes and at least 40°F (4°C) for the Neocrete and fast-set epoxies.
3. The substrate should not contain more than 4% moisture content. Always run a Moisture Drive Calcium Chloride Test prior to application.
4. Any thinning of material reduces physical properties and subsequently dry film thickness. If thinning is required, increase material consume accordingly.
5. Never coat wet or moist surfaces.
6. Solvent-based products are incompatible with asphalt compounds.
7. Do not mix combinations of NEOGARD materials without consulting an authorized representative.
8. It is much easier to keep coating off an adjacent surface during application than to remove it after cure.
9. Completely solvent wash all hand tools power equipment and mixing equipment before breaks and at the end of each working day.
10. In systems requiring the use of primers, coating materials must be applied in a limited time period, otherwise lightly sand, clean and re-prime.
11. The 70714/70715 epoxy is moisture insensitive.
12. All material quantities given are theoretical coverage rates.



# Conversion Measurement Tables

Inches	Mils	Millimeters	Microns	US Sieve
	1	0.025	25	
	2	0.049	49	#270
	3	0.074	74	#200
	4	0.098	98	#140
	5	0.123	123	
	6	0.147	147	#100
	7	0.172	172	#80
	8	0.196	196	#60
	9	0.221	221	#50
	10	0.245	245	#40
1/64"	15	0.368	368	
	20	0.490	490	
	25	0.613	613	#30
1/32"	31	0.760	760	
	35	0.858	858	#20
	40	0.980	980	
	45	1.103	1103	#16
	55	1.348	1348	
1/16"	62	1.519	1519	
	65	1.593	1593	
	70	1.715	1715	
	75	1.838	1838	
	80	1.960	1960	#10
	90	2.205	2205	
	95	2.328	2328	#8
	100	2.450	2450	
1/8"	125	3.063		
3/16"	187	4.582		#4
1/4"	250	6.125		
5/16"	321	7.865		
3/8"	384	9.408		
7/16"	446	10.927		
1/2"	500	12.250		

From	To	Do
inch	mils	inch x 1000
mm	cm	mm / 10
meter	cm	meter / 100
mm	mils	mm / 25.4 * 1000



**NEOGARD**  
*Division Of Jones-Blair*

JOB NAME:

**Area Drain Cross Section**

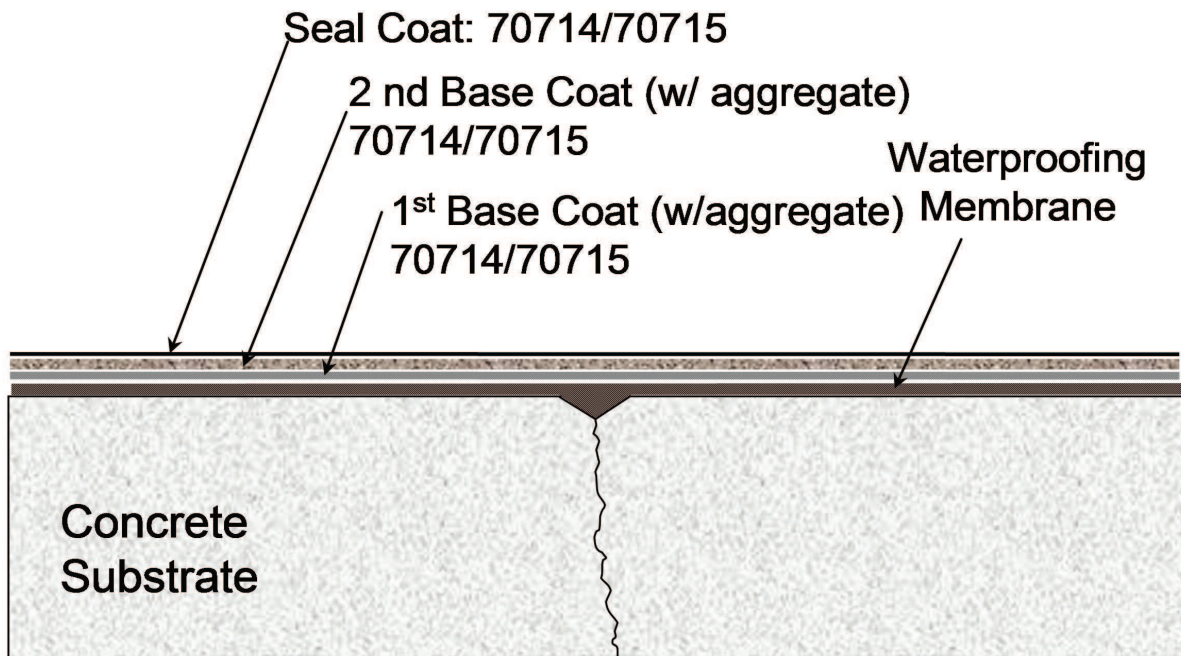
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SCALE:  
**N.T.S.**

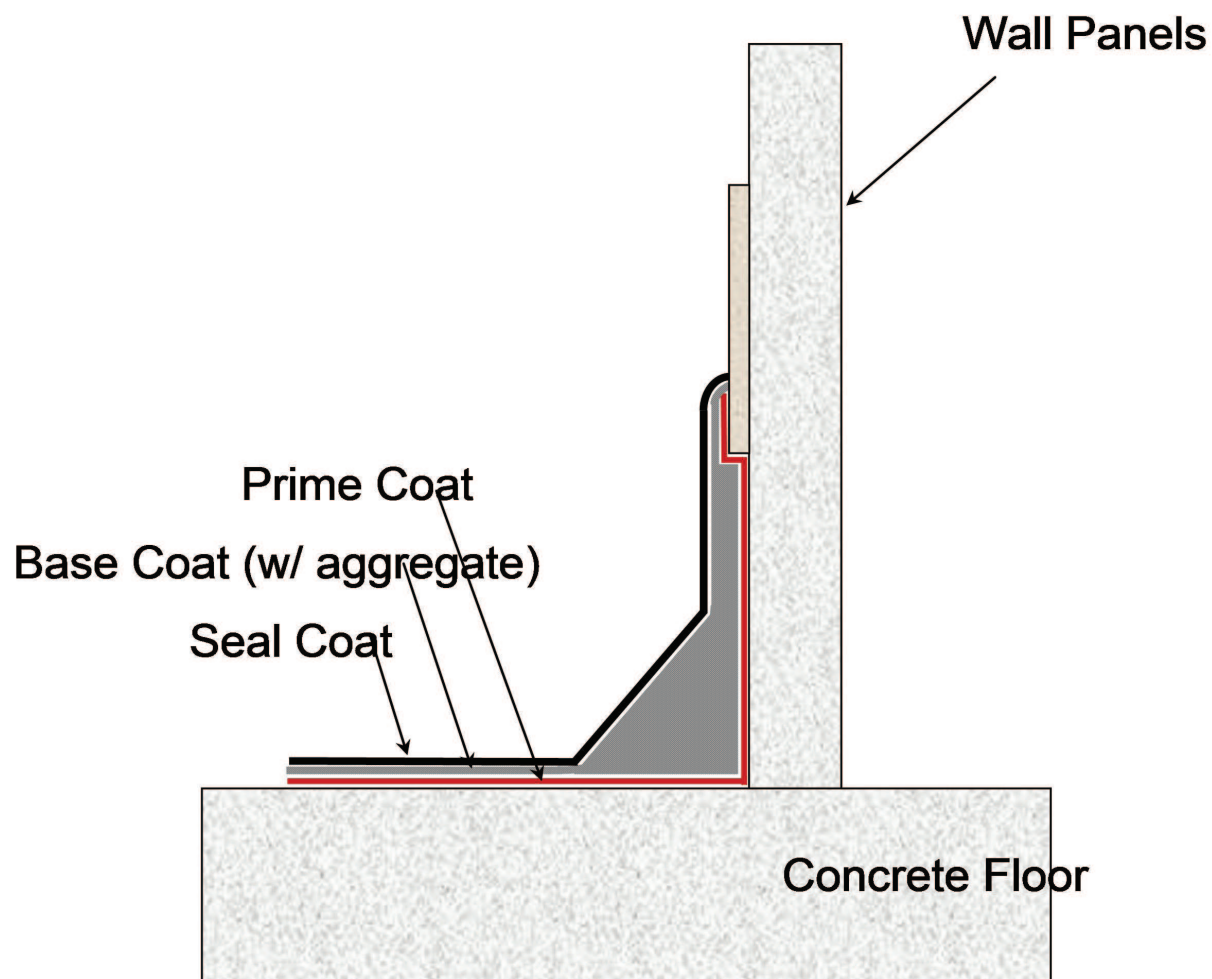
DRW. NO.:  
**NEO-FL-1**

DATE:  
**12/1/2006**

# CG Broadcast WP



<p><b>NEOGARD</b> <i>Division Of Jones-Blair</i></p>	<p><i>JOB NAME:</i> <b>Reinforced Crack Detail</b></p>		
<p>Neogard is a manufacturer of materials and not a designer, architect, or engineer. Details prepared by Neogard are schematic only, to be used as a guide for the convenience of Neogard's customers.</p>	<p><i>SCALE:</i> <b>N.T.S.</b></p>	<p><i>DRW. NO.:</i> <b>NEO-FL-2</b></p>	<p><i>DATE:</i> <b>12/1/2006</b></p>



**NEOGARD**  
***Division Of Jones-Blair***

*JOB NAME:*

**Standard Cant Base Transition  
to a Prefabricated Wall Panel**

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*SCALE:*

**N.T.S.**

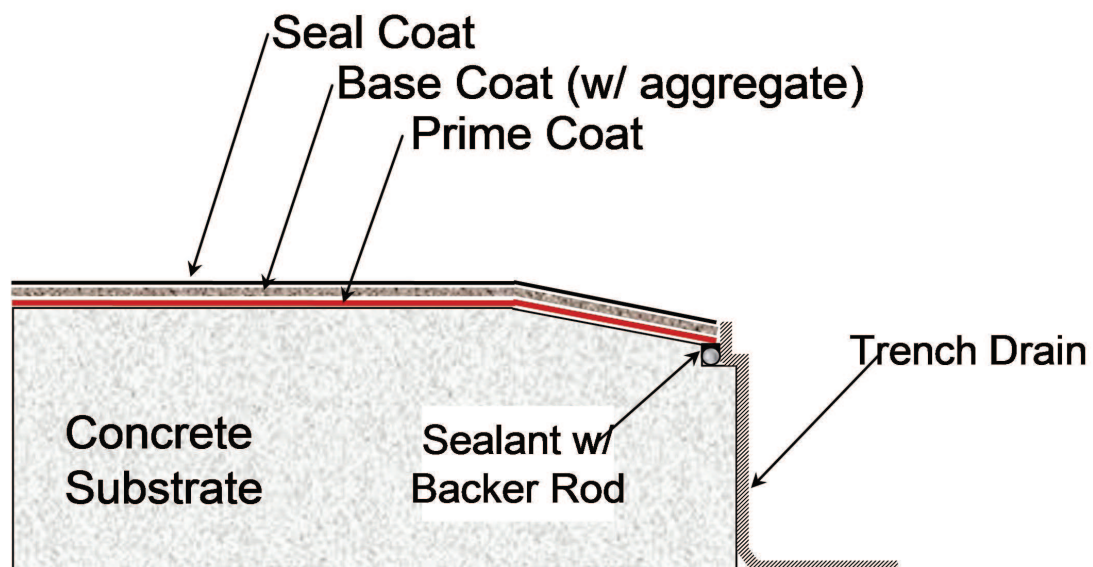
*DRW. NO.:*

**NEO-FL-3**

*DATE:*

**12/1/2006**





**NEOGARD**  
*Division Of Jones-Blair*

JOB NAME:

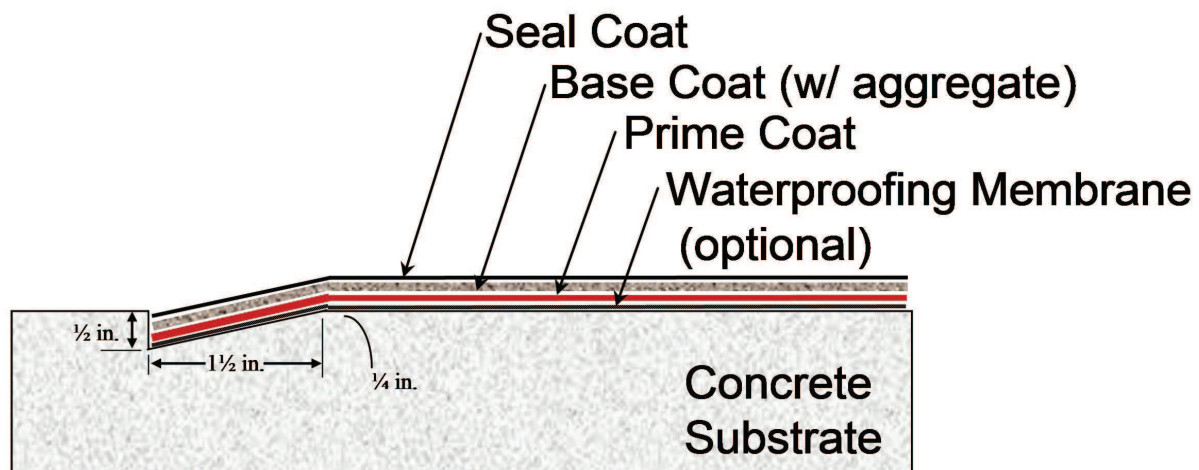
**Prefabricated Trench Drain**

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SCALE:  
**N.T.S.**

DRW. NO.:  
**NEO-FL-4**

DATE:  
**12/1/2006**



# **NEOGARD** **Division Of Jones-Blair**

JOB NAME:

**Overlayment Transition**

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SCALE:

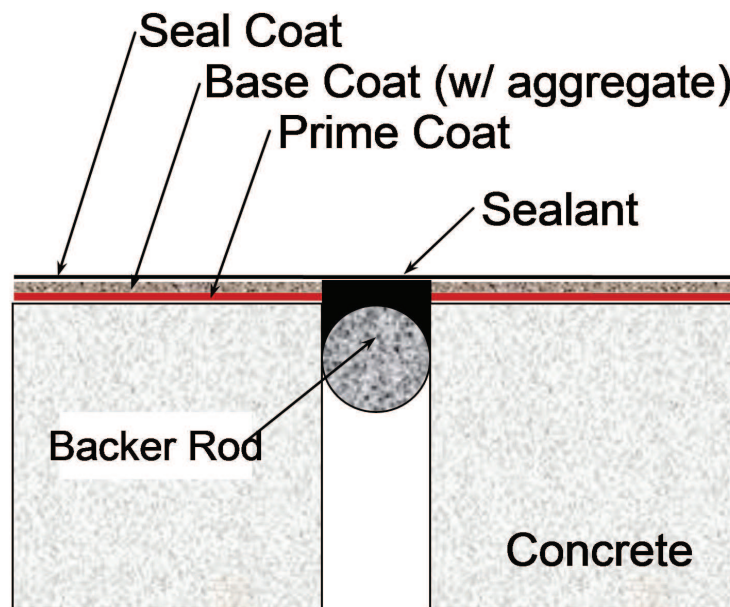
**N.T.S.**

DRW. NO.:

**NEO-FL-5**

DATE:

**12/1/2006**



**NEOGARD**  
***Division Of Jones-Blair***

*JOB NAME:*

**Expansion/Isolation Joint**

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*SCALE:*

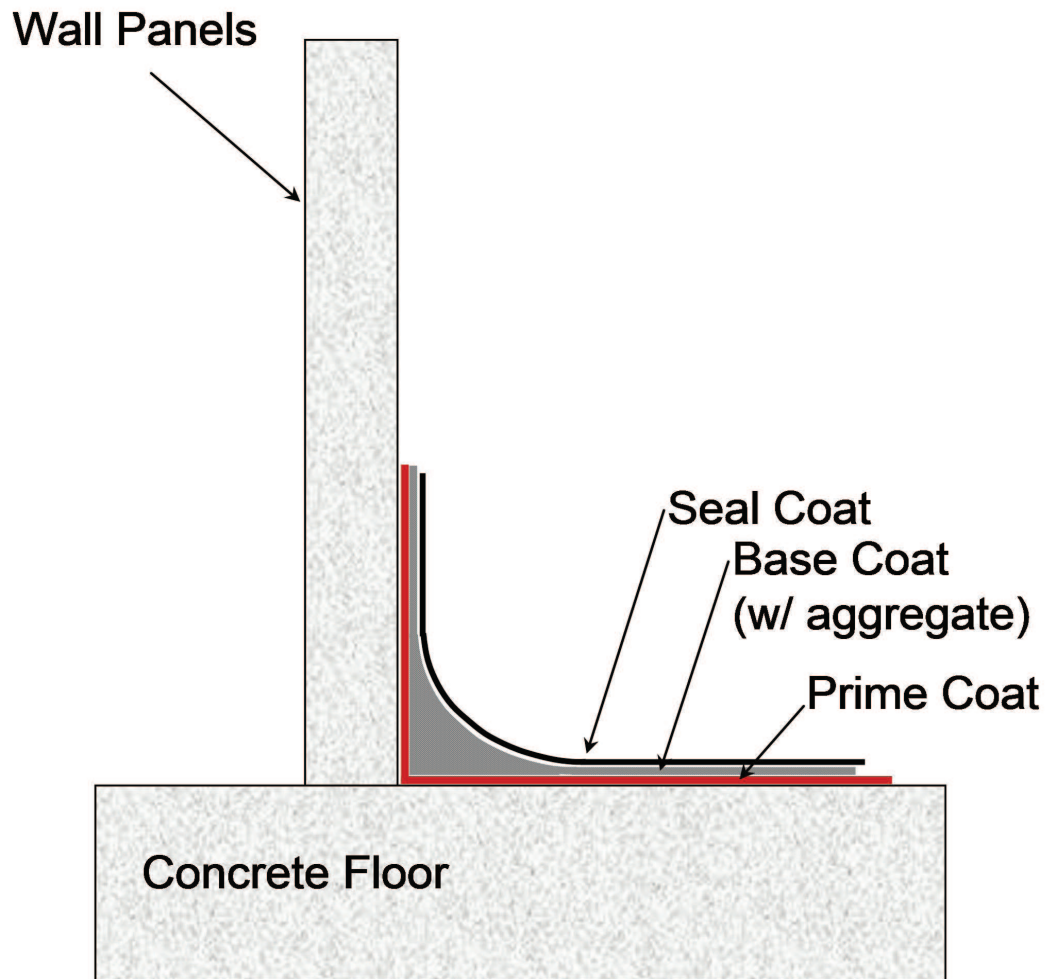
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*DRW. NO.:*

**NEO-FL-6**

*DATE:*

**12/1/2006**



**NEOGARD**  
*Division Of Jones-Blair*

JOB NAME:

**Standard Cove Base**

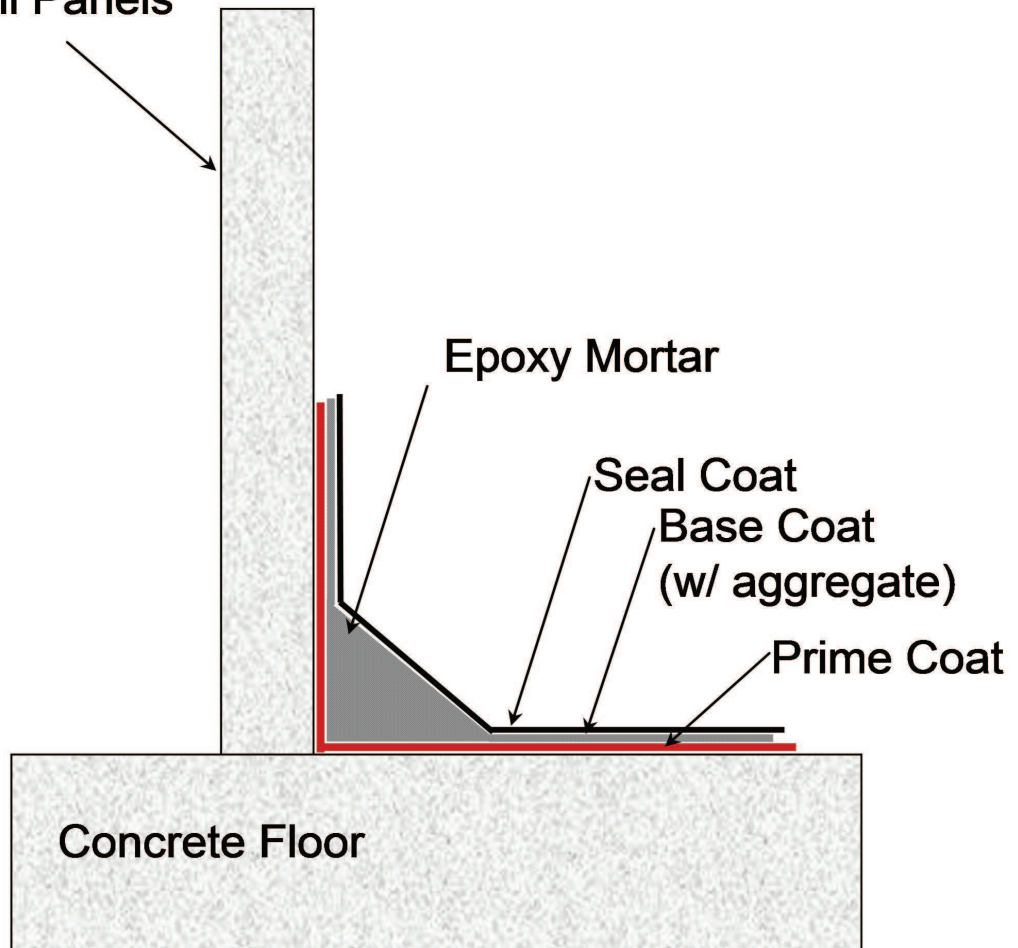
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**N.T.S.**

DRW. NO.:  
**NEO-FL-7**

DATE:  
**12/1/2006**

Wall Panels



**NEOGARD**  
*Division Of Jones-Blair*

JOB NAME:

**Standard Cant Base**

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SCALE:

**N.T.S.**

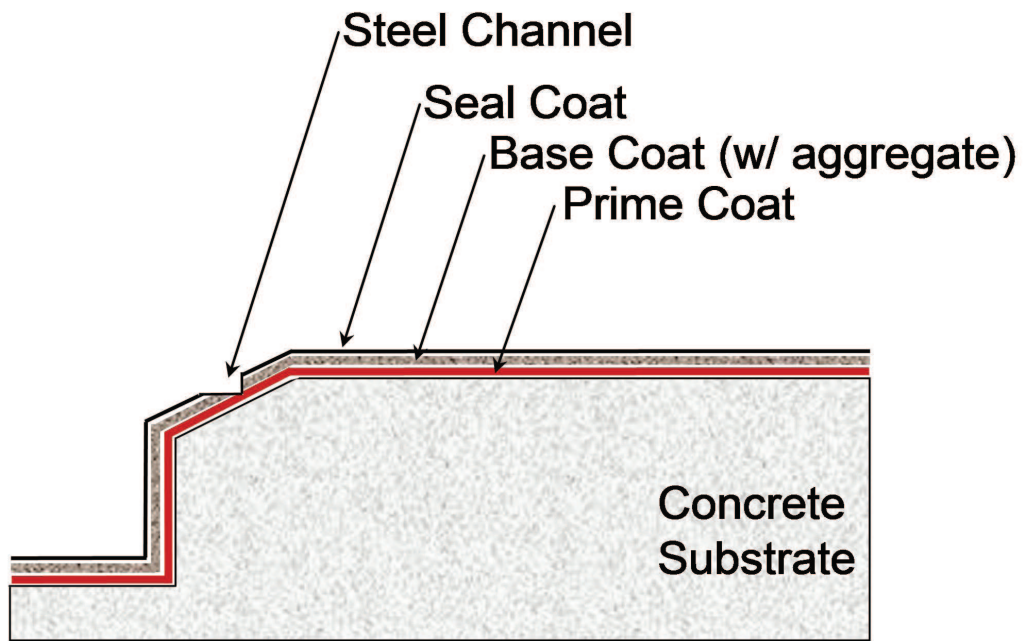
DRW. NO.:

**NEO-FL-8**

DATE:

**12/1/2006**





**NEOGARD**  
*Division Of Jones-Blair*

JOB NAME:

**Poured Trench Drain  
 Transition**

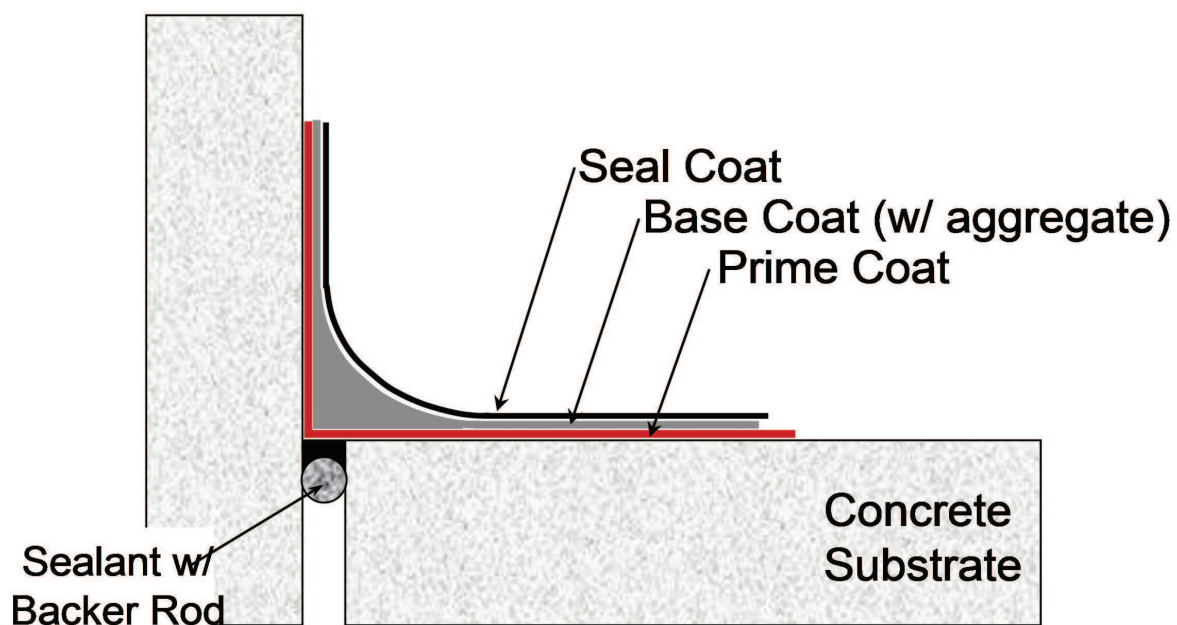
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DRW. NO.:  
**NEO-FL-9**

DATE:  
**12/1/2006**





**NEOGARD**  
***Division Of Jones-Blair***

*JOB NAME:*

**Standard Cove Base on  
Isolated Slab**

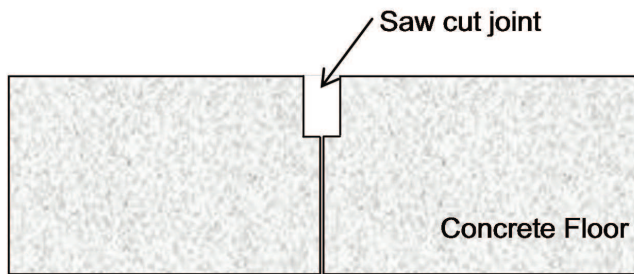
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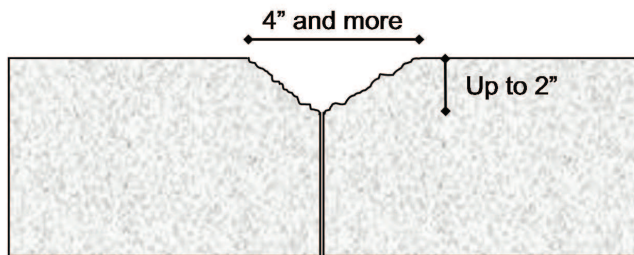
*DATE:*  
**12/1/2006**

Step ①



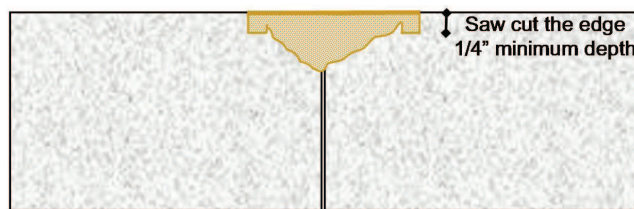
Original Condition

Step ②



Actual Condition

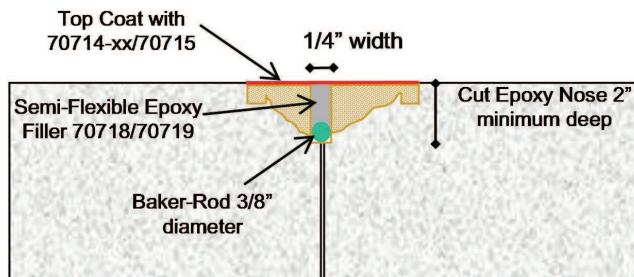
Step ③



**Epoxy Nose**

-Clean and solvent wipe concrete.  
-Mix 70714/70715 or 70714/70715-09 with 40-95 silica sand at a ratio of 1:4 and fill, pack and trowel the crack.

Step ④



**Re-Build Joint**

Fill joint with Flexible Epoxy filler 70718/70719 minimum 1.5" deep

- a.- After it cures (overnight), cut the epoxy nose at the joint minimum 2" deep & 1/4" wide.
- b.- Insert Baker-Rod at the bottom of the new joint.
- c.- Fill the joint with Semi-Flexible Epoxy 70718/70719 and wait until it cures.
- d.- Top coat with 70714-xx/70715 or 70714-xx/70715-09 at 100 sf/gal.
- e.- You are done...

**NEOGARD**  
**Division Of Jones-Blair**

JOB NAME:

**Deteriorated joints**

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SCALE:  
**N.T.S.**

DRW. NO.:  
**NEO-FL-11**

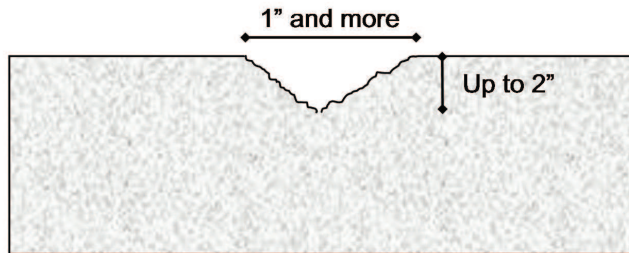
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**11/16/2008**

Step ①



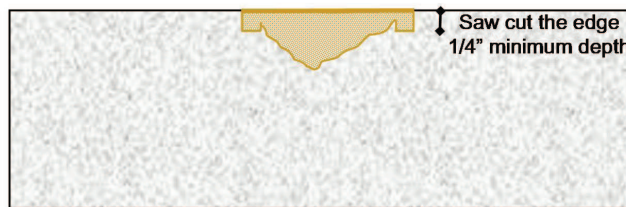
Original Condition

Step ②



Actual Condition

Step ③



Epoxy Mortar

-Clean and solvent wipe concrete.  
-Mix 70714/70715 or 70714/70715-09  
with 40-95 silica sand at a ratio of 1:4  
and fill, pack and trowel the crack.

- a.- After it cures top coat with 70714-xx/70715 or 70714-xx/70715-09 at 100 sf/gal.  
b.- You are done...

**NEOGARD**  
*Division Of Jones-Blair*

JOB NAME:

Major Repair

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SCALE:  
N.T.S.

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NEO-FL-12

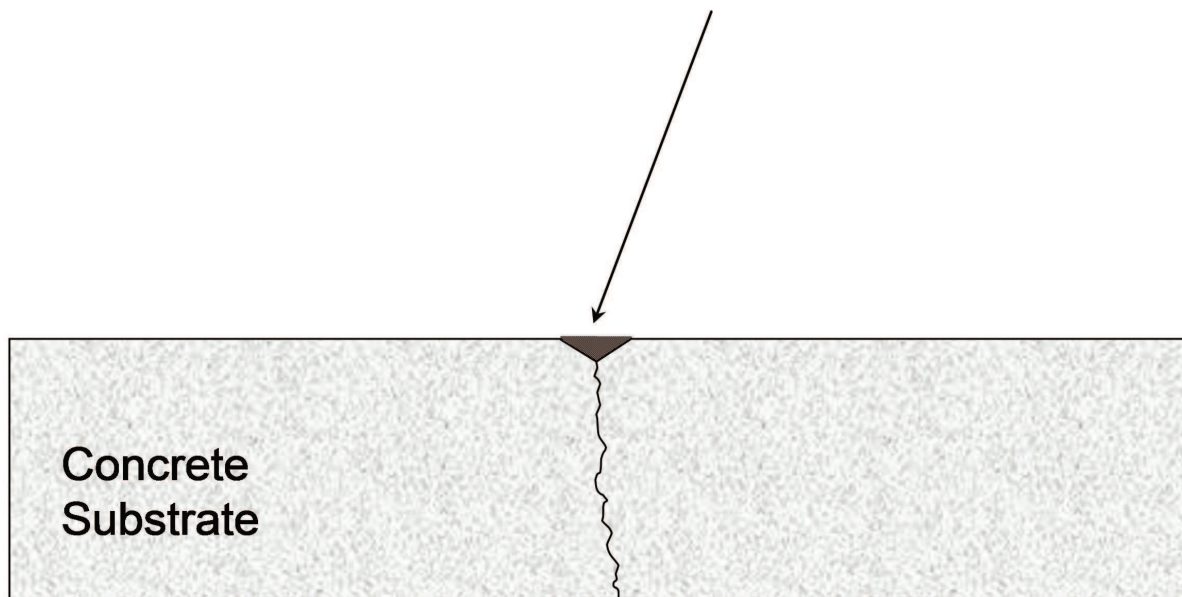
DATE:  
11/16/2008

# Epoxy Putty

70714/70715-09 + Fumed Silica

70714/70715 + Fumed Silica

Mixing Ratio 1 : 3



**NEOGARD**  
***Division Of Jones-Blair***

*JOB NAME:*

**Reinforced Crack Detail**

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*SCALE:*  
**N.T.S.**

*DRW. NO.:*  
**NEO-FL-13**

*DATE:*  
**11/16/2008**





# Maintenance Guide

1. The cleaner the floor is kept, the longer the floor will last. Fine particles of dust, dirt, debris, if not removed regularly act as an abrasive with traffic.
2. Proper cleaning is a function of utilizing the cleaning solution that will dissolve or emulsify the type of soil or contamination the area is subjected to and thorough rinsing techniques.
3. One important aspect to ensure prolonged life of your Neogard Floor System is that chemical spills and even cleaning solutions will affect the system if they are not removed and rinsed thoroughly.
4. The best cleaning technique is achieved by utilizing scrub brushes, (either hand types or automatic equipment types) to positively attack the soil with the appropriate cleaning solution. The correct cleaning compound is important, but the cleaning technique is the most important factor in effective cleaning. After the surface has been subjected to the cleaning solution and properly agitated with scrubbing, particular concentration must be given to remove the resultant emulsion of cleaning solution and soil. This is best achieved by rinsing with clean water and picking up with vacuums, or using a squeegee or broom to remove to floor drains. A second rinsing with clean water is recommended to minimize the possibility of any residue remaining. If the rinsing is not complete, a film may develop.
5. Maintenance of NEOGARD's flooring systems must be performed at regular intervals to assure that the coating system will continue to provide service for which it was intended.
6. Suggested maintenance procedures should include:
  - Repeated physical inspections.
  - Clean up and removal of spilled chemical reagents.
  - Periodic cleaning.
  - Coating system repairs.
  - Top coat and/or worn surface restoration.
7. Avoid dragging heavy pointed metal or concrete objects across the flooring system.
8. Avoid moving pallets by shoving across floor coating system. Pallets should be lifted and placed in required location.
9. It is important to report any irregularities, such as cracks that may develop due to building movement or at expansion joints, gouges that may occur from extreme occasional impact, certain solvent and chemical attack. These irregularities can happen in industrial situations.
10. Depending on the degree of use conditions of the area, you may require a new finish coat every three to five years.







# Application Manual

NEOGARD Flooring Systems • English Version

Volume 1

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**NEOGARD Div. of JONES-BLAIR**

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