



# VERTICAL SURFACES

## EUCO SOLUTIONS FOR CONCRETE REPAIR

Concrete repair can be organized into a variety of different categories based on repair strategy. Basically, these can be classified as structural, non-structural, cosmetic or joint repairs. Generally, there are two broad application or placement methods for any type of concrete repair. Typically, each type takes place as either a horizontal or a vertical/overhead application.

Selecting the proper material for concrete repairs can be difficult. There are so many considerations and each application must be analyzed based on the current conditions and what type and severity of exposure or service conditions are anticipated. Refer to the product charts for help in making the proper selection.

At times, either a horizontal or vertical/overhead repair may require special considerations, such as improved adhesion, protection from corrosion, or application of a subsequent coating.

The Euclid Chemical Company manufactures a complete and comprehensive line of user-friendly concrete repair products that will fit the unique needs of your next indoor or outdoor project. The products, including coatings, bonding agents, corrosion inhibitors, sealants, adhesives, and cure and seals are complementary, enabling a system approach for concrete repair.

### Patch and Repair

#### Cementitious Form and Pour/Pump

**Eucocrete** ▲ – high performance repair material with extended working time is designed for any size indoor or outdoor, form and pour project.

**Eucocrete Supreme** ▲ – polymer modified and user friendly, with an extended working time and integral corrosion inhibitor. Just add water to this one part rugged, form and pour repair mortar.

**Tamms Form and Pour** ▲ – shrinkage compensated concrete repair mortar, containing a corrosion inhibitor that incorporates smaller aggregate and can be placed at 3/4" to 3".

#### Cementitious Trowelable

**Eucopatch** – one component, easy-to-use, fast setting patch and repair mortar recommended for use on new concrete and existing masonry surfaces.

**Tammscrete** – one component, polymer modified cementitious finishing material used for achieving a smooth finish on precast, poured in place, tilt-up or other unfinished or damaged concrete surfaces.

**Verticoat** – versatile, two component, polymer modified cementitious mortar sets rapidly to allow quick, easy repairs.

**Verticoat Supreme** ▲ – tough, polymer modified, one component, easy to use cement based repair product formulated with a corrosion inhibitor, designed specifically for high performance and difficult to reach vertical and overhead applications.

#### Epoxy Trowelable

**Aquaseal Gel** – Two part epoxy protective coating designed for underwater applications on concrete and masonry surfaces.

**Duralcrete Gel** ▲ – a low odor, 100% solids epoxy compound with a non-sag, paste consistency.

**Flexolith Summer Grade (Gel)** – 100% solids, low modulus, moisture insensitive epoxy binder for use in applications where stress relief and resistance to mechanical and thermal movements are required.

### Sprayable

**Eucoshot** ▲ – one component, silica fume modified, shotcrete repair product designed for application by dry shotcrete method (gunite) for interior or exterior repairs.

**Tamms Spray Mortar** ▲ – sprayable mortar with fiber reinforcement and a corrosion inhibitor designed for low pressure application or hand troweled concrete repairs.

### Rapid Set

#### Form and Pour

**VersaSpeed** ▲ – Versatile, cementitious materials that can be placed in thicknesses ranging from 1/4" to 6" and can be coated with an epoxy coating in 4 hours.

#### Trowelable

**Speed Crete Red Line** – fast setting patching material may be "shaved" to desired shape and is designed to reach initial set in 8-10 minutes, final set within 20 minutes.

**Speed Crete PM** – ready-to-use, polymer modified, cement-based concrete and masonry patching compound requiring only potable water for mixing.

**Speed Plug** – quick setting hydraulic cement used to instantly stop running water or seepage leaks in masonry or concrete.

**Speed Crete Blue Line** – fast setting, underwater cement-based patching material designed for use without forming at a non-slump consistency.

#### Epoxy

**Eucopoxy Injection Resin** – a 100% reactive, high modulus, moisture insensitive adhesive for numerous injection and sealing needs.

## VERTICAL SURFACE CHART

This symbol ▲ indicates product can contribute points toward the LEED certification of a building.

PLACEMENT CATEGORY		PATCH AND REPAIR										SPRAYABLE		RAPID SET					SPECIALTY	
SPECIFICATION TYPE		CEMENTITIOUS FORM AND POUR/PUMP			CEMENTITIOUS TROWELABLE				EPOXY TROWELABLE					FORM AND POUR	TROWELABLE				EPOXY	
PRODUCT NAME		Eucocrete ▲	Eucocrete Supreme ▲	Tamms Form and Pour ▲	Eucopatch	Tammscrete	Verticoat	Verticoat Supreme ▲	Aquaseal Gel	Duralcrete Gel ▲	Flexolith Summer Grade Gel	Eucoshot ▲	Tamms Spray Mortar ▲	VersaSpeed ▲	Speed Crete Red Line	Speed Crete PM	Speed Plug	Speed Crete Blue Line	Eucopoxy Injection Resin	
PRODUCT CHARACTERISTICS		Microsilica Modified	Corrosion Inhibitor, Latex and Microsilica Modified	Corrosion Inhibitor, Latex and Microsilica Modified	Versatile, Color Similar to Plain Concrete,	Polymer Modified, Color Controlled	Polymer Modified	Corrosion Inhibitor, Latex and Microsilica Modified	100% Solids, Underwater Applications	Corrosion Inhibitor	Low Modulus, Resistance to Mechanical and Thermal Movements	High Pressure, Silica Fume Modified	Low Pressure, Corrosion Inhibitor, Trowelable Fiber Reinforced	High Early Strength, Coat-able, Comes in a Longer Set Version - "LS"	Fast Setting, Can be "Shaved" to Desired Shape	Corrosion Inhibitor, Polymer Modified	Hydraulic Cement, Stops Running Water	Underwater Patching Material, Rapid Set	Epoxy Resin for Structural Crack Repair	
Placement Information	Number of components	One	One	One	One	One	Two	One	Two	Two	Two	One	One	One	One	One	One	One	Two	
	Minimum Thickness, in. (mm)	1" (25.4)	1" (25.4)	3/4" (19)	1/16" (1.6)	Featheredge	1/8" (3.2)	1/4" (6.0)	1/4" (6.0)	1/4" (6.0)	1/4" (6.0)	1" (25.4)	3/8" (10.0)	1/4" (6.0)	3/4" (19)	Featheredge	3/4" (19)	3/4" (19)	N/A	
	Maximum Thickness, in. (mm)	6" (152)	6" (152)	3" (76)	6" (152)	1/8-1/4" (3.2-6.0)	4" (102)	4" (102)	2" (51)	2" (51)	2" (51)	6" (152)	2" (51)	6" (152)	2" (51) extended	2.75" (70)	2"+ (51) UW	2"+ (51) UW	N/A	
	Working Time, minutes*	60	120	.30	5 - 8	:20	10	30	30 - 35	:40	:40	180	30	N/A	:05	:12	:01	:03	26	
	Initial Set, hr : minutes*	3:40	6:15	:35	:15	:25	:25	1:00	1:00	1:00	:45	3:40	1:00	:15 - :30	:08 - :10	:15	:01 - :03	:03 - :05	N/A	
Final Set, hr : minutes*	4:40	7:00	1:00	:30	:40	:40	2:30	4:00	4:00	4:00	4:40	2:00	:20 - :40	:20	:40	:05	:20	N/A		
OVERHEAD				✓		✓	✓	✓	✓	✓		✓			✓	✓			✓	
VERTICAL		✓	✓	✓	✓	✓	✓	✓				✓		✓	✓	✓			✓	
Compatible w/ Sentinel GL & other Galvanic Anodes					✓		✓					✓	✓		✓	✓				
Applications	Anchoring/Adhesives									✓									✓	
	Bridge Repairs	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Columns	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Curbs			✓	✓											✓				
	Honeycomb Repair					✓	✓	✓							✓					
	Masonry Unit Repair				✓		✓	✓							✓	✓				
	Parking Structures	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Precast Panels				✓	✓								✓		✓				✓
	Underwater Repairs								✓									✓		
	Walls			✓			✓	✓			✓	✓	✓	✓				✓	✓	✓
	Walls (Formed)	✓	✓	✓			✓						✓	✓	✓	✓	✓	✓		
Walls (Resurfacing)				✓	✓															
Water Stop																	✓			

For additional product information refer to the product technical data sheet.

\*Technical results developed under laboratory conditions at approximately mid 70 degree Fahrenheit range



## CONCRETE REPAIR MORTARS



# HORIZONTAL SURFACES

## Patch and Repair

### Cementitious

**Tamms Thin Patch** – two component polymer modified, cement-based compound that is formulated for patching and repairing concrete from featheredge to 1”.

**Duraltop Fast Set** – fast setting, two component, polymer reinforced, cementitious patch and repair mortar designed for horizontal concrete repairs.

**Duraltop Flowable Mortar** – two component, polymer modified, flowable, cementitious patch and repair mortar for hard-to-reach places.

### Form and Pour/Pump

**Eucocrete** – high performance repair material with extended working time is designed for any size indoor or outdoor, form and pour project.

**Eucocrete Supreme** – polymer modified and user friendly, with an extended working time and integral corrosion inhibitor. Just add water to this one part, rugged, form and pour repair mortar.

**Tamms Form and Pour** – shrinkage compensated concrete repair mortar that contains a corrosion inhibitor, incorporates smaller aggregate, and can be placed at 3/4” to 3”.

### Epoxy

**EUCO 456S** – epoxy resin system and a specially processed graded iron aggregate provides excellent adhesion, abrasion and impact resistance on floors with extra heavy duty traffic, and is ideal where exceptional strength and toughness are needed.

**EUCO 456** – surfaces and resurfaces floor slabs of all types, restores worn and damaged floors to a uniform, high strength, wear resistant surface, resists many chemicals and provides superior protection against splash and spill chemical attack in combination with tough floor wear.

## Overlayment

### Cementitious

**Concrete-Top Supreme** – polymer modified deck repair mortar with integral corrosion inhibitor combats penetrating salts and water and offers superior resistance to freeze/thaw damage for use at thicknesses of 3/8” to 2”.

**TammsPatch II** – two component polymer reinforced, cementitious mortar and underlayment.

**Thin-Top Supreme** – durable water resistant overlay with a corrosion inhibitor delivers excellent resistance to freeze/thaw damage while forming a tenacious bond to concrete for toppings 1/16” to 3/8”.

**Ultra-Tex** – thin cementitious decorative overlay that is formulated with liquid pigments and a template system to re-create the look of stone, slate or tile from an infinite array of color blends.

## Underlayment

### Self-Leveling

**Super Flo-Top** – flowable Portland cement-based underlayment that delivers, high early strength and can

be pumped through standard equipment. It is recommended for uneven surfaces and has an extended open time while exhibiting excellent self-healing properties.

**Flo-Top** – free flowing compound specially designed for easy application over concrete floors as an underlayment for subsequent placement of floor coverings.

## Rapid Set

### Cementitious

**Express Repair** – cement-based, ready to use, patch and repair mortar with rapid strength gain.

**VersaSpeed** – for horizontal, trowel applications and form and pour projects requiring fast set, this versatile repair mortar can be open to traffic in as little as two hours from initial set and can be coated with an epoxy in as little as four hours.

**Euco-Speed MP** – magnesium phosphate patching mortar bonds tenaciously to properly prepared concrete and provides a durable patch which is resistant to damage from freeze/thaw cycling and deicing salt, formulated to deliver high early strength for fast turnaround projects even down to 0° F (-18° C).

### Epoxy

**Dural Fast Set Epoxy LV** – 100% solids, moisture insensitive epoxy resin compounds available in pre-packaged single and dual component cartridge kits.

**Duralflex Fastpatch** – 100% solids, low modulus, moisture insensitive epoxy repair kit provides excellent resistance to thermal and mechanical movement with a rapid cure that minimizes downtime.

# HORIZONTAL SURFACE CHART

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PLACEMENT CATEGORY		PATCH AND REPAIR							OVERLAYMENT				UNDERLAYMENT		RAPID SET					
SPECIFICATION TYPE		CEMENTITIOUS			FORM AND POUR/PUMP			EPOXY		CEMENTITIOUS				SELF-LEVELING		CEMENTITIOUS FORM AND POUR			EPOXY	
PRODUCT NAME		Tamms Thin Patch	Duraltop Fast Set ▲	Duraltop Flowable Mortar ▲	Eucocrete ▲	Eucocrete Supreme ▲	Tamms Form and Pour ▲	EUCO 456S	EUCO 456	Concrete-Top Supreme ▲	TammsPatch II ▲	Thin-Top Supreme ▲	Ultra-Tex	Super Flo-Top	Flo-Top	Express Repair	VersaSpeed ▲	Euco-Speed MP ▲	Dural Fast Set Epoxy LV ▲	Duralflex Fastpatch
PRODUCT CHARACTERISTICS		Polymer Modified	Corrosion Inhibitor, Polymer Modified	Corrosion Inhibitor, Polymer Modified	Microsilica Modified	Corrosion Inhibitor, Latex and Microsilica Modified	Corrosion Inhibitor, Latex and Microsilica Modified	High Impact & Abrasion Iron Aggregate	High Wear Resistant, Chemical Resistant	Corrosion Inhibitor, Latex and Microsilica Modified	Polymer Modified, USDA Compliant, Color Controlled	Corrosion Inhibitor, Latex and Microsilica Modified	Polymer Modified, Decorative Wear Surface	Portland Based	Wood Floor Compatible	Corrosion Inhibitor	High Early Strength, Coatable, Comes in a Longer Set Version - "LS"	Rapid Setting Magnesium Phosphate	100% Solids, High Modulus	100% Solids, Low Modulus
Placement Information	Number of components	One	Two	Two	One	One	One	Two	Two	One	Two	One	Two	One	One	One	One	One	Two	Two
	Minimum Thickness, in. (mm)	Featheredge	1/4" (6.0)	1/4" (6.0)	1" (25.4)	1" (25.4)	3/4" (19)	1/8" (3.0)	1/8" (3.0)	3/8" (10.0)	Featheredge	1/16" (1.6)	Skim	Featheredge	Featheredge	1/2" (13)	1/4" (6)	1/2" (13)	1/4" (6)	1/4" (6)
	Maximum Thickness, in. (mm)	1" (25.4) per lift	1" (25.4) per lift	1.5" (38) per lift	6" (152)	6" (152)	3" (76)	2" (50.0)	2" (51)	2" (51)	2.5 (64) extended	3/8" (10.0)	1/8" (3.0)	1" (25.4)	1" (25.4)	1.5" (38) extended	6" (152)	8" (203)	1" (25.4)	3" (76)
	Working Time, minutes *	25	15	30	60	120	.30	30 - 90	20 - 90	30	45	35	10 - 20	N/A	N/A	20	5 - 8	5	5	20 - 30
	Initial Set, hr:min. *	:30 - :50	:20	:30	3:40	6:15	:35	N/A	N/A	1:00	1:30 - 3:00	1:15	N/A	:45	1:00	:20 - :30	:23	:10	:08	3:00 - 4:00
	Final Set, hr:min *	1:00 - 2:00	:40	:60	4:40	7:00	1:00	N/A	N/A	2:30	4:00 - 5:00	3:00	N/A	1:15	1:30	1:00	:30	:18	:30	5:00
Compatible w/Sentinel GL and other Galvanic Anodes					✓					✓						✓				
Applications	Commercial Floors		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Cracked, Spalled Concrete	✓								✓		✓							✓	
	Industrial Floors		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓
	Loading Docks		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓
	Multi-Unit Residential		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Parking Decks		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓
	Pavements, Ramps & Walkways	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓
Warehouse Floors		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	

For additional product information refer to the product technical data sheet.

\*Technical results developed under laboratory conditions at approximately mid 70 degree Fahrenheit range

For almost 100 years, The Euclid Chemical Company has served as a leading supplier to the concrete and masonry industry with over 400 engineered concrete admixtures and construction products marketed under the EUCO, EUCON, Tamms, Dural, Speed Crete and Hey'Di brand names. The Euclid Chemical Company's experienced field team is available to support you and your projects using Euclid Chemical solutions and products, which are manufactured under the stringent standards of our ISO 9001:2000 certified quality system. For more information, contact The Euclid Chemical Company at 800.321.7628, or log onto the web site at [www.euclidchemical.com](http://www.euclidchemical.com).



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