

USE AS A WEARING SURFACE
USE AS AN UNDERLAYMENT
USE AS DECORATIVE FLOORING



SELF-LEVELING TOPPING
QUICK TURNAROUND
POLISHABLE

SUPER FLOWCRETE

PRODUCT DESCRIPTION

SUPER FLOWCRETE is a technically advanced portland cement based material which is self-leveling, self-drying and will perform very well as an interior finished floor, wearing surface or underlayment. It is a single component, polymer modified scientific blend of cements, select graded silica and special additives. **SUPER FLOWCRETE** is self-drying through an internal chemical reaction which uses the water not needed for hydration.

SUPER FLOWCRETE gives a smooth, flat finished floor which is suitable for quick application of floor coverings or use as a finished wearing surface.

PRODUCT APPLICATIONS

SUPER FLOWCRETE is designed to be used as a self-leveling wearing surface topping, underlayment or decorative finished floor. It is easy to apply and provides a smooth, tough finished floor. Use it as a new floor or for floor repairs in residential, retail, commercial, warehouses, utility areas and light manufacturing facilities. **SUPER FLOWCRETE** is suitable for hard rubber tire forklift traffic.

When **SUPER FLOWCRETE** is used as an underlayment, breathable floor coverings such as carpet, tile, etc. may be applied as soon as the material has dried (normally 6-8 hours). Non-breathable coverings or coatings such as epoxy, urethane and seamless flooring, may be applied as soon as 24 hours later.

SUPER FLOWCRETE is also designed to be used as an interior decorative floor for retail, hotel, restaurants and similar applications. Integral concrete colors and stains may be used to make decorative patterns and designs. **SUPER FLOWCRETE** is polishable.

PRODUCT FEATURES

- Self-leveling
- Self-Drying
- Light Grey Concrete Color (Available in White)
- Use for Warehouse/Forklift Traffic
- Underlayment from Feather to 2"
- Wearing Surface from 1/4" to 2"
- Easy to mix and apply
- Not a Gypsum product
- Pumpable
- Polishable

PRODUCT SPECIFICATIONS

Color: Light Grey (Available in White)

Flow and Self Heal Time: 10-12 Minutes

Working Time: 25 Minutes

Initial Set(ASTM C-191): 19 Minutes

Final Set(ASTM C-191): 49 Minutes

Compressive Strength (ASTM C-109, Air Cured)

| 1 Day | 3 Days | 7 Days | 28 Days |
|----------|----------|----------|----------|
| 2600 PSI | 3900 PSI | 5300 PSI | 6100 PSI |

Flexural Strength (ASTM C-1042, Air Cured)

| 3 Days | 7 Days | 28 Days |
|---------|----------|----------|
| 925 PSI | 1316 PSI | 1360 PSI |

Slant Shear Bond Strength (ASTM C-1042, Air Cured)

28 Days—935 PSI **P-100 Primer**

Shrinkage (ASTM C-596, Air Cured)

7 Days - .03% **28 Days - .04%**

Abrasion Resistance(ASTM C-944, Internal Test)

28 Days - .62% Wt. Loss—Very Good

PACKAGING AND YIELD

SUPER FLOWCRETE is packaged in:

- 45lbs. moisture resistant bags
- 70 bags/pallet

One 45lb. Bag of **SUPER FLOWCRETE** will cover 45sqft at 1/8" thickness.

SURFACE PREPARATION

All surfaces must be clean and structurally sound; free of dust, grease, oil, paint, sealers or curing compounds, etc. Any damaged or weak concrete and surface laitance must be removed. Prepare the surface by mechanical abrasion such as shot-blasting or scarifying to get a rough profile for bonding. If acid etching is used, the surface must be neutralized and thoroughly cleaned. Stencil trowel, slick surfacing and non-porous surfaces must be mechanically abraded or use **EP-1000 Epoxy Primer** per installation instructions on **EP-1000 Literature**.

Prime surface with **P-100 Primer** for concrete, masonry, wood and exterior grade plywood. Apply primer with roller or soft bristle push broom. Remove any puddles. Allow primer to dry completely before applying **SUPER FLOWCRETE**. Primer will dry in approximately 30 minutes. When using **SUPER FLOWCRETE** as a wearing surface, **DO NOT dilute P-100 Primer**. We do recommend using **EP-1000 Epoxy Primer** to maximize bond performance. Floor must be rigid and sound. Use metal lathe to hold wood and exterior grade plywood firm and rigid. Primer may be applied up to 24 hours before application of **SUPER FLOWCRETE**. Very porous concrete may require two coats of primer to prevent air bubbles and pinholes in **SUPER FLOWCRETE**.

MIXING INSTRUCTIONS

Mix one(1) bag of **SUPER FLOWCRETE**(45lbs.) with 4.75 quarts of water. Trapping air during mixing can lead to bubbles. Place water in drum first, then add **SUPER FLOWCRETE** while mixing. Use a heavy duty (>700RPM) 1/2" or 3/4" high speed drill and jiffy or basket mixer. **DO NOT MIX BY HAND**. Mix thoroughly for about 2-3 minutes to obtain smooth, lump-free and liquid mixture. Aggressive and high speed mixing increases liquidity and flow. **DO NOT OVERWATER**. Two bags may be mixed at once and use a team approach with two mixing drums for faster installation. Use a measured pail with holes drilled so excess water above 4.75 quarts spills out.

Pour the liquid **SUPER FLOWCRETE** roughly into place and smooth with mortar spreader and smoother. **DO NOT TROWEL FINISH**. A trowel or smoother may be used to touch up and feather edge. Wear spiked shoes if it is necessary to walk in fresh mortar. **SUPER FLOWCRETE** has 10-12 minutes flow time at 70°F. While extension with aggregate is not necessary, 3/8" pea gravel may be added up to 1/4 of total mix to extend product.

Be advised, flow may be impaired and surface may not be as smooth as desired. Clean tools frequently with water. For faster installation of larger areas, **SUPER FLOWCRETE** may be pumped. Contact manufacturer regarding pumps.

USE AS AN UNDERLAYMENT

SUPER FLOWCRETE may be used as an underlayment from featheredge to 2" depth. A sealer should not be applied when used as an underlayment. Always follow floor covering manufacturer's directions concerning maximum moisture content, PH levels and

perform required tests.

USE AS AN WEARING SURFACE

SUPER FLOWCRETE has very good abrasion resistance and may be used as a finished floor with traffic up to and including hard rubber tire forklifts. **DO NOT USE** where there is steel or hard plastic wheel traffic, or where heavy equipment or tools will be dragged across surface. Not for heavy duty industrial use. Use 1/4" to 2" as a wearing surface. Cut down all repair edges as needed. **DO NOT FEATHEREDGE**. Cracks should be routed out and pre-filled. Construction joints should be brought up through the **SUPER FLOWCRETE**. Avoid having full weight of heavy traffic on corners of **SUPER FLOWCRETE** by using joint filler, polyurea or other protection.

When using **SUPER FLOWCRETE** as a wearing surface, **DO NOT dilute P-100 Primer**. As bond is of critical importance for overlays, we recommend using **EP-1000 Epoxy Primer** to maximize bond performance, especially in decorative applications. EP-1000 can help minimize effects of substrate movement and crack telegraphing.

USE OVER CUTBACK

Remove as much of cutback as possible, leaving only a thin residue firmly bonded to concrete. Remember your bond will only be as good as the bond of the cutback to the concrete. Coat the surface with a thin uniform amount of **ACRYLIC-BOND** emulsion. Let this coat dry completely, then prime with **P-100 Primer** (do not dilute with water). Let the **P-100 Primer** dry and install **SUPER FLOWCRETE** as previously described.

LIMITATIONS

- DO NOT overwater.
- DO NOT trap air while mixing.
- DO NOT apply below 45°F.
- DO NOT allow P-100 Primer to freeze,
- NOT for exterior use.
- DO NOT trowel finish.
- Protect from rapid drying from exposure to heat, A/C vents and open doorways.
- Contains Portland Cement : Avoid contact with eyes and prolonged contact with skin. Wash thoroughly after handling. In case of eye contact, flush with plenty of water for at least 15 minutes. Consult a physician immediately. Keep out of reach of children.
- Contains Silica Sand and Free Silica: Do not breathe dust. Avoid inhalation by wearing respirator. Continuous exposure and inhalation may cause silicosis. Crystalline silica is classified as a known human carcinogen.

LIMITED WARRANTY

Lyons Manufacturing, Inc. warrants the high quality of its products. However, due to many factors beyond our control during use, such as job conditions, workmanship, etc., the liability of all parties making and selling this product is expressly limited to the refund of purchase price or replacement of the Lyons Manufacturing materials used. Lyons Manufacturing, Inc. will replace any product proven to have a manufacturing defect, FOB Factory, provided Lyons Manufacturing is notified of such defect within one (1) year from the date of shipment. This warranty is lieu of all other warranties, expressed or implied. Lyons Manufacturing, Inc. makes no warranty of suitability of its products for any particular application and sells its products upon the condition that customer shall conduct their own tests to determine the suitability of the product for their specific purposes. Under no circumstances will Lyons Manufacturing, Inc. be liable for economic, special, incidental or consequential damages or losses of any kind.

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