

# SELF-LEVELING TOPPING QUICK TURNAROUND

## SUPER FLOWCRETE

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

### 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 one 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 warehouses, parking garages, 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.

### PACKAGING

**SUPER FLOWCRETE** is packaged in 45 lb. moisture resistant bags, with 70 bags per pallet.

### PRODUCT FEATURES

- Self-Leveling
- Self-Drying
- Light Gray Concrete Color, Also Available in White
- Use for Warehouses/Forklift Traffic
- Underlayment from Feather to 2 Inches
- Wearing Surface from 1/4 Inch to 2 Inches
- Easy to Mix and Apply
- Not a Gypsum Product
- Pumpable

### PRODUCT SPECIFICATIONS

Color:	Light Gray or 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)				
<u>1 Day</u>	<u>3 Days</u>	<u>7 Days</u>	<u>28 Days</u>	
2600 PSI	3900 PSI	5300 PSI	6100 PSI	
FLEXURAL STRENGTH (ASTM C-348, Air Cured)				
	<u>3 Days</u>	<u>7 Days</u>	<u>28 Days</u>	
	925 PSI	1316 PSI	1360 PSI	
SLANT SHEAR BOND STRENGTH (ASTM C-1042, Air Cured)				
	7 Days - 620 PSI		28 Days - 935 PSI	
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			

### COVERAGE

One 45 lb. bag of **SUPER FLOWCRETE** will cover 45 sq. ft. at 1/8" thickness.

## SURFACE PREPARATION

All surfaces must be clean and structurally sound; free of dust, grease, oil, paint, sealers, curing compounds, etc. Any frozen 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. Steel troweled, slick surfacing and non-porous surfaces must be mechanically abraded.

Prime surface with **P-100 PRIMER** for concrete, masonry, wood, ceramic tile, terrazzo 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. Use a mixture of 1 part water to 2 parts **P-100 PRIMER**. For non-porous surfaces such as ceramic tile, terrazzo and cutback, use primer without addition of water. 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**. Do not dilute **P-100 PRIMER** when **SUPER FLOWCRETE** is used as a wearing surface.

## MIXING AND APPLICATION

Mix one (1) bag of **SUPER FLOWCRETE** (45 lb.) with 4-3/4 quarts of water. Place water in the drum first and add **SUPER FLOWCRETE** while mixing. Use a heavy duty (>700 RPM) 1/2" or 3/4" high speed drill and jiffy or basket mixer. **DO NOT** try to 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**. Trapping air during mixing can lead to bubbles in surface. 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 4-3/4 quarts spills out.

Pour the liquid **SUPER FLOWCRETE** roughly into place. Spread and smooth with mortar spreader and smoother. **DO NOT TROWEL FINISH**. A trowel or smoother may be used to tough up and featheredge. Wear spiked shoes if it is necessary to walk in fresh mortar. **SUPER FLOWCRETE** has 10-12 minutes flow time at 70°F. While aggregate addition is not necessary, 3/8" pea gravel may be added up to 1/4 of total mix to extend product. Flow may be impaired and surface may not be as smooth as desired. Clean tools frequently with water.

## PUMPING

For faster installation of larger areas, **SUPER FLOWCRETE** may be pumped. Contact the factory regarding pumps.

**CONTAINS PORTLAND CEMENT.** Avoid eye contact or 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 the 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 and crystalline silica is classified as a known human carcinogen.

### LIMITED WARRANTY

Lyons Manufacturing, Inc. warrants the high quality of its products. However, because of many factors beyond our control in their use, such as job conditions, workmanship, etc., the liability of all parties making and selling this product is expressly limited to the refund of the purchase price or replacement of the Lyons material used. Lyons Manufacturing, Inc. will replace any product proven to have a manufacturing defect, FOB Factory, provided Lyons Manufacturing, Inc. is notified of such defect within six (6) months from the date of shipment from the factory. This warranty is in lieu of all other warranties, express 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 test to determine the suitability of the products for their purposes. Under no circumstances will Lyons Manufacturing, Inc. be liable for economic, special, incidental or consequential damages or losses of any kind.

## USE AS A 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. When used as a wearing surface, always apply a high solids acrylic sealer. Sealer may be applied after 24 hours. Use from 1/4" to 2" as wearing surface. Cut down at repair edges as needed. Construction joints should be brought up through **SUPER FLOWCRETE** topping. Avoid having full weight of heavy traffic on corners of **SUPER FLOWCRETE** by using joint filler, polyurea or other protection. **DO NOT DILUTE P-100 PRIMER** when using **SUPER FLOWCRETE** as a wearing surface. **DO NOT** USE it where there is steel or hard plastic wheel traffic or where heavy equipment or tools will be dragged across surface or heavy-duty industrial use. **SUPER FLOWCRETE** may be open for foot and light traffic as soon as it has dried and sealer applied and dry. Open for heavier traffic after 2 days. Use of integral color may retard set and cure times.

## 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 the directions of floor covering manufacturers concerning maximum moisture content, pH levels and perform required tests.

## 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** without dilution with water. Let the **P-100 PRIMER** dry and install **SUPER FLOWCRETE** as previously described.

## LIMITATIONS

Do not overwater.

Do not apply below 45°F.

Not for exterior use.

Do not trowel finish.

Protect from rapid drying from exposure to heat and a/c vents and open doorways.

Do not let **P-100 PRIMER** freeze.

Do not trap air while mixing.

**NOTE:** Test areas should be used in all cases to be sure the product is suitable for the specific application at hand, including adhesives and floor coverings to insure compatibility.

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