

SELF LEVELING TOPPING AND UNDERLAYMENT

**NO TROWELING REQUIRED
EASY TO APPLY**

FLOWCRETE®

**STRENGTH OVER 7000 PSI
ULTRA LOW WATER/CEMENT RATIO
APPLY FROM FEATHEREDGE TO 3 INCHES**

PRODUCT DESCRIPTION

FLOWCRETE is a cement based, self-leveling material formulated specifically for rapid leveling of interior floors. It is a scientific formulation of cements, aggregate and special additives. When mixed with water only, **FLOWCRETE** becomes a free flowing liquid mortar which seeks its own level. **FLOWCRETE** has outstanding strength and bonding characteristics.

PRODUCT APPLICATIONS

Use **FLOWCRETE** to level and smooth concrete and other floors prior to the installation of carpet, ceramic tile, vinyl tile, wood parquet, etc. It is used in new construction, renovation and corrective work. **FLOWCRETE** may be used at or above grade to level concrete floors, wood floors, over exterior grade plywood, over ceramic tile and over cut-back and adhesive residue. Apply **FLOWCRETE** from featheredge to 3 inches in one application with no addition of aggregate. **FLOWCRETE** hardens through hydration and drying with no shrinkage, cracking or spalling.

PRODUCT FEATURES

- Self Leveling
- No troweling required
- Add only water
- No shrinkage
- Pumpable
- May be featheredged
- Walkable after 4-6 hours
- Install floor coverings 12-16 hours later
- No curing required

- Most economical method
- No sanding or grinding needed

PRODUCT SPECIFICATIONS

Color: Light Gray, with some variation
Flow Time: 10 minutes
Working Time: 25-30 minutes
Initial Set (ASTM C-191): 2 Hr.
Final Set (ASTM C-191): 2 Hr. 30 Min.

Compressive Strength (ASTM C-109, Air Cured)
3 days 7 days 28 days
4000 PSI 4950 PSI 7000 PSI

Flexural Strength (ASTM C-348, Air Cured)
28 days 1050 PSI

Flammability: 0

Shrinkage: (ASTM C-596, Air Cured)
28 days 0 to .01%

(All data at 3 quarts to 45 lb. mixing ratio and 70°F)

COVERAGE

One (1) 45 lb. bag will cover approximately 45 sq. ft. at 1/8 inch thickness. One (1) gallon of **P-100 Primer**, after addition of water, will cover approximately 350 sq. ft., varies with surface porosity.

PACKAGING

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

SURFACE PREPARATION

All surfaces must be clean and free of oil, paint, chemicals, grease, wax, curing components, sealers, etc. Remove loose materials and any unsound concrete. Surface must be clean, dry and sound.

Prime surface with **FLOWCRETE 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 **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 lathes to hold wood and exterior grade plywood firm and rigid. Primer may be applied up to 24 hours before application of **FLOWCRETE**.

MIXING AND APPLICATION

Mix one (1) bag of **FLOWCRETE** (45 lb.) with three (3) quarts of water. Place water in the drum first and add **FLOWCRETE** while mixing. Use a heavy duty 1/2" or 3/4" high speed (850 to 1200 RPM) drill and paddle or basket mixer. **DO NOT** try to mix by hand. Mix thoroughly for about 23 minutes to obtain smooth, lump-free and liquid mixture. Aggressive and high speed mixing increases liquidity and flow. **DO NOT OVERWATER**. A skim will form if overwatered. If there is excess water at the surface, reduce the amount of water slightly.

Pour the mortar roughly into place and spread and smooth with mortar spreader. Do not trowel finish. A trowel or smoother may be used to featheredge and touch-up. Mix 2 bags at once for larger areas. Use a team approach with two mixing drums for faster installation. Wear spiked shoes if it is necessary to walk in fresh mortar. While aggregate addition is not necessary, 3/8" dry pea gravel may be added up to 1/4 of mix to extend product. Clean trowel and tools frequently with water.

A **FLOWCRETE** installation may be opened for foot traffic in 4-6 hours and breathable floor coverings may be applied the next day. Water-based adhesives require additional cure time.

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.

PUMPING

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

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

USE AS A WEARING SURFACE

FLOWCRETE may be used as a finished surface for foot traffic. For heavier traffic applications, use **PATCHCRETE**. When used as a wearing surface, do not featheredge; cut down edges of area to be repaired to at least 3/8". **FLOWCRETE** should be sealed with a water base acrylic sealer in these applications.

LIMITATIONS

Do not use where there is significant exposure to water.

Do not overwater.

Do not apply below 45°F.

Do not use where there is hydrostatic pressure.

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.

Contact factory on use of water-based adhesives and seamless flooring systems with **FLOWCRETE**

Always follow the directions of floor covering manufacturers concerning maximum moisture content and perform required tests.

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. A light gray film may form due to the combination of excess water, low temperature and/or inadequate mixing. This does not affect the performance and is usually eliminated when smoothing **FLOWCRETE**.

LIMITED WARRANTY

Lyons Manufacturing, Inc. warrants the high quality of its products. However, because of many factors beyond our control in its 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 of replacement of this 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, 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 test to determine the suitability of the product for their 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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