

# INTERIOR SELF-LEVELING UNDERLAYMENT

PUMPABLE AND POURABLE

VALUE ENGINEERED

EASY TO USE

# FLOWCRETE® SLU

**\*Can Be Applied Up To 3 Inches**

**\*Can Be Applied Over Concrete & Ceramic Tile**

**\*Allows Rapid Installation of Most Floor Coverings**

## PRODUCT DESCRIPTION

**FLOWCRETE SLU** (Self-Leveling Underlayment) is an economical easy to use self-leveling underlayment designed for interior applications. It can be applied over various substrates including concrete and ceramic tile to create a smooth flat surface. **FLOWCRETE SLU** utilizes Low Alkali Cements allowing various finished floor goods to be applied quickly in some cases as soon as 3 hours. **FLOWCRETE SLU** contains Post-Industrial recycled materials.

## PRODUCT APPLICATIONS

Use **FLOWCRETE SLU** to level and smooth concrete and other floors prior to the installation of carpet, ceramic tile, vinyl tile, wood parquet, etc. It can be used in new construction, renovation and corrective work. **FLOWCRETE SLU** may be used at or above grade to level concrete floors, wood floors, over exterior glue plywood, over ceramic tile and over cut-back and adhesive residue. Apply **FLOWCRETE SLU** from featheredge to 3 inches in one application without addition of aggregate. **FLOWCRETE SLU** hardens through hydration and drying with no shrinkage, cracking or spalling.

## SUITABLE SUBSTRATES

- Concrete
- Cement backer board
- Ceramic tile and stone
- Exterior glue plywood
- Cement mortar beds
- Cement terrazzo

## PRODUCT FEATURES

- Self-Leveling, no troweling required
- Pumpable and pourable
- Can be applied over various substrates
- Can be applied featheredge to 3" in single pour
- Allows rapid install of flooring, 3 - 72 hours.
- Inorganic, will not contribute to mold mildew growth
- Contains Recycled Content
- LEEDs Credits Applicable

## PROPERTIES

Working Time:	15-20 minutes
Color:	Gray
Time to Traffic	3-4 Hours
Install Floor Goods	3-72 Hours (depending on product)

Compressive Strength (ASTM C-109, Air Cured)  
28 days - 3300 –3600 PSI

Flexural Strength (ASTM C-384, Air Cured)  
28 days - 750 –1000 PSI

Tensile Bond (ASTM C-1583)  
28 days - 275-305 PSI

Dry Density	106 lbs / cu ft
Installed Weight	2.2 lbs per sq ft at 1.4"

## APPROXIMATE COVERAGE: Per 50 lbs Bag

1/8" - 44 sq ft	1/4" - 22 sq ft	1/2" - 11 sq ft
1" - 5.5 sq ft	2" - 2.8 sq ft	3" - 1.8 sq ft

**PACKAGING:** **FLOWCRETE SLU** is packaged in 50 lb. bags, 56 per pallet. Factory sealed containers of the product are guaranteed for 1 year if stored off ground in a dry area. See Warranty for details.

## **SURFACE PREPARATION:**

**Concrete Slabs:** All surfaces must be clean and structurally sound; free of dust, grease, oil, paint, sealers, etc. Pores of the concrete surface must be open to permit proper bonding. If a minimum bond strength of 72 psi is not achieved surface preparation will be necessary by sand-blasting, scarifying or acid etching. If acid etch is used, the surface must be neutralized and brushed thoroughly. Expansion joints in the substrate should be carried through the **FLOWCRETE SLU**. Prime surface according to “Priming” instructions and install **FLOWCRETE SLU**.

**Cutback Adhesive on Concrete:** Removed as much cutback as possible by mechanical abrasion 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. Water soluble adhesives must be completely removed. Coat the surface with a thin uniform amount of **ACRYLIC-BOND**. Let this coat dry completely, then Prime surface according to “Priming” instructions and install **FLOWCRETE SLU**.

**Ceramic Tile or Cement Terrazzo:** To prevent grout lines from shadowing to the surface, remove glaze from top of ceramic tile and skim patch with **PAVECRETE PLUS**. Let this layer dry completely for 24 hours then Prime surface according to “Priming” instructions and install **FLOWCRETE SLU**.

**Wooden Sub-Floors:** Installer must verify that weight of both wet and cured **FLOWCRETE SLU** will not cause significant deflection. Prime surface according to “Priming” instructions. Install 3.2# galvanized diamond metal lathe over entire exterior glue plywood floor. Secure lathe to prevent loose sections AFTER Primer has dried. Then install **FLOWCRETE SLU**.

**Perimeter Isolation Strip:** Note: It is recommended to install a perimeter isolation strip to walls before the installation of **FLOWCRETE SLU**.

## **PRIMING:**

Prime surface with **P-100 Primer**. Apply primer with roller or soft bristle push broom. Remove any puddles. Allow primer to dry completely before applying **FLOWCRETE SLU**. Primer will dry in approximately 30 minutes. Use a mixture of 1 part water to 2 parts **P-100 Primer**. Once the Primer is dry you must apply the **FLOWCRETE SLU** within 24 hours. For non-porous surfaces such as ceramic tile, cement terrazzo, wood flooring and cutback, use primer without addition of water or consider using **EP-200 Epoxy Primer** and a broadcast sand method. (See **EP-200 Epoxy Primer** literature).

**MIXING:** **FLOWCRETE SLU** should be mixed with 4.0 – 4.5 quarts of water per 50 lb bag. Do not over water. For manual application, add product to water and mix for 3 min with a heavy duty drill (>700 rpm) to obtain a lump free mix. **FLOWCRETE SLU** can also be used in most pump equipment. A check should always be performed to ensure that mix is homogeneous and free from separation before pouring. **DO NOT OVERMIX** and **DO NOT** entrap air while mixing.

## **APPLICATION:**

Pour or pump the **FLOWCRETE SLU** over the primed substrate and spread with a spike roller or gauging rake. Use a smoothing paddle to combine pours and to obtain a flat smooth surface. Floor will be ready for foot traffic in 3–4 hours. Follow manufacturer’s recommendations for installing vinyl tile, linoleum, carpet, or wood parquet over concrete. Before installing wood or resilient flooring, consult manufacturer for recommendations on substrate moisture content requirements. Allow **FLOWCRETE SLU** to dry in accordance with those recommendations.

**TOPPING or SECOND LAYER:** A finish coat of **SUPER FLOWCRETE** may be applied to **FLOWCRETE SLU** the next day. It is extremely important that **FLOWCRETE SLU** is primed with a coat of **P-100 Primer**. This also applies to a second lift of **FLOWCRETE SLU**.

**FLOORING INSTALLATION:** Floor goods can be applied to surface from 3 – 72 hours after application, depending on thickness, drying conditions and type of finished floor. Due to the relatively low pH level of **FLOWCRETE SLU**, finished floor goods can be applied rapidly without risk of adhesive bond failure. Always test performance suitability and compatibility of finished floor systems prior to their application. Sample surfaces should be installed as a field test so as to be representative of entire surface and tested for intended use. Always refer to finished floor manufacturer’s recommendations regarding installation instructions, restrictions and compatibility.

## **PRECAUTIONS:**

- For interior use only.
- Do not install when surface temperature is below 40°F (4°C) above 90°F (32°C), or when ambient air temperature is expected to fall below 50°F (10°C) during placement or before material takes final set.
- Do not install over painted surfaces.
- Do not install over certain moisture-sensitive gypsum based surfaces.
- Do not exceed recommended mixing ratio as indicated in mixing instructions. Over watering will weaken product properties.
- Never mix with cement or admixtures.
- Not a wearing surface, must be covered with wear surface.
- Do not apply directly over waterproofing or crack isolation membranes.
- Do not bond directly to luan, OSB, particle board or Masonite® surfaces.
- Not for use in submerged applications.
- 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 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 or 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 1 year 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.

## LYONS MANUFACTURING, INC.

8900 Forney Road ♦ Dallas, TX 75227 ♦ 214/381-8100

www.lyonsmanufacturing.com