

## FloroCrete SLX Self-Leveling Slurry Applied Urethane Mortar

**Product Description:** FloroCrete SLX is a solvent free, low odor, slurry broadcast applied, self-leveling system. It is specially formulated for areas where thermal shock, impact and chemical attack are issues. It allows moisture to move through it at a safe rate. It can be installed from a 1/8" neat system to a 3/16" with a media broadcast (3 to 4.8 mm) thickness.

**Typical Uses, Applications:** Florocrete SLX may be used as a part of the Florock FloroProof moisture mitigation system (contact your Florock representative for details) and is ideally suited for Commercial, Industrial and Institutional applications, such as:

- Kitchen Fryer Areas
- Vehicle Services Areas
- Food Processing Plants
- Breweries, Wineries & Dairies
- Coolers & Freezers
- Bottling Areas
- Laboratories
- Exterior Surfaces
- Chemical Processing
- Sanitize/Wash Areas

**Product Advantages:**

- Contains FloroSeptic anti-microbial additive
- Thermal Shock Resistant
- High Chemical & Solvent Resistance
- High Acid & Alkali Resistance
- Low Odor/Solvent free installation
- Quick curing formula
- Meets USDA, FDA & OSHA requirements
- Slip Resistance
- No Topcoat Required
- Tolerates Dampness

**Packaging:** FloroCrete SLX is packaged and sold by the component. Each batch consists of:

- Part A – Polyol Component
- Part B – Isocyanate Component
- Part C – FloroCrete SLX Filler

(Broadcast Aggregates are sold separately)

Physical Properties		
Property	Test Method	Results
Compressive Strength	ASTM C579	9,000 PSI
Tensile Strength	ASTM D638	2,500 PSI
Flexural Strength	ASTM D790	5,100 PSI
Hardness, Shore D	ASTM D2240	85
Bond Strength	ASTM D4541	>400 PSI
Co-Efficient of Friction	ASTM D-2047	Passes ADA recommendations
Co-Efficient of Thermal Expansion	ASTM C531	1.1x10 <sup>-5</sup> in/in/°F
Impact Resistance	ASTM D2794	160 in lbs.
Flammability	ASTM E-648	Class I
Abrasion Resistance	ASTM D4060	5 mg loss
Indoor Air Quality		Compliant to CA 01350
Water Absorption	ASTM C413	<0.1%
Resistance to Fungi Growth	ASTM G21	Passes
VOC	EPA Method 24	0
Service Temperature		-50°F to 235°F
*Workable Life, 1 Mixed kit		15 min.
<b>**Cure time at 70° @ 50% RH</b>		
Set to Touch		8-10 hours
Foot Traffic		12-16 hours
Full Service		24-48 hours
Clean-up Solvent		MEK

*\*After blending the components, immediately empty from mixing bucket onto the floor.*

*\*\*Cooler temperatures require longer cure time. See FloroCrete Catalyst Tech data for more information.*

**Colors:** FloroCrete SLX is available in Grey, Tile Red, Neutral and custom colors.

**Storage:** All containers should be stored at 45° F to 85° F (7° - 29° C) and be kept tightly sealed and out of direct sunlight.

**Coverage:**

Apply FloroCrete SLX @ 55 SF per kit for 3/16” (3 mm), with the aggregate or flake broadcast, the final thickness will be 3/16” (4.8 mm).

**Limitations:** FloroCrete SLX is not to be applied in temperatures below 45° F (7°C) or above 85° F (29°C), or when relative humidity is >85%. Apply only to dry, properly prepared, uncoated, reinforced concrete floor slabs that have a moisture content of <10%. Do not apply if air temperature and/or surface temperature is at or below dew point. During application, protect substrate from exposure to water leakage or condensation from pipes. Do not feather-edge, do not hand-mix material, and do not apply to cracked or unsound substrates. Product is for horizontal use on dry concrete surfaces only.

**Substrate Preparation:** Mechanically prepare concrete surface using a shot-blaster, diamond grinder or other approved method. Ensure that all surface contaminants are removed. Determine that concrete is sound, with appropriate compressive strength. A Schmidt hammer can be used for this purpose. If concrete has strength of less than 3,000 psi, do not install FloroCrete until concrete has been replaced. FloroCrete is not intended for use over existing coatings. For FloroCrete SLX Neat System (see pg. 3), priming with FloroCrete P is required.

For a FloroCrete SLX Broadcast System (see pg.4), no priming is usually necessary. However, if concrete is porous, priming with FloroCrete P Primer may be necessary to prevent “out gassing”. Consult your Florock Representative for details.

**Expansion Joints:** In addition to standard slab expansion joint construction, place joints wherever FloroCrete SLX is adjacent to dissimilar materials. Isolate areas subject to movement, vibration, thermal stress, load-bearing columns, and vessel sealing rings. Rout-out cracks and fill with FloroCrete HD or FloroCrete RT prior to floor system installation. Treat very large cracks as expansion joints and fill with elastomeric sealant (see System 6500 series tech data).

**Coving:** Prime the area to receive a cove with FloroCrete P and seed using Florock P/N 1-126 sand. This is a wet on wet application, proceed with cove. For FloroCrete SLX cove, mix 1 complete kit of FloroCrete SLX with 2-50# bag of Florock P/N 1-126 sand. This mix will cover

83 LF of 6” cove, or 125 LF of 4” cove (25.3meters of 10cm cove and 38.1 meters of 15cm cove)

<b>Chemical Resistance of Mortar</b>	
<b>Reagents</b>	<b>Results</b>
Hydrochloric Acid 37%	R
Hydrofluoric Acid 4%	R
Hydrofluoric Acid 6%	R
Nitric Acid 30%	R
Phosphoric Acid 85%	R
Sulfuric Acid 39%	R
Sulfuric Acid 45%	R
Acetic Acid 10%	R
Acetic Acid 60%	L
Acetic Acid, Glacial 100%	L
Acetic Anhydride 98%	L
Citric Acid 40%	R
Formic Acid 10%	R
Lactic Acid 85%	R
Dibutylamine 100%	R
Ammonium Hydroxide 30%	R
Potassium Hydroxide 50%	R
Sodium Hydroxide 50%	R
Ammonium Chloride (sat'd)	R
Ammonium Sulphate (sat'd)	R
Ammonium Nitrate 50%	R
Ammonium Aqueous 30%	R
Zinc Chloride 50%	R
Ferric Chloride 50%	R
Hydrogen Peroxide 3%	R
Potassium Carbonate (sat'd)	R
Potassium Chloride (sat'd)	R
Sodium Carbonate (sat')	R
Sodium Chloride (sat'd)	R
Sodium Nitrate ( sat'd)	R
Sodium Sulphate (sat'd)	R
Sodium Hydro chlorite 10%	R
Diacetone Alcohol 100%	R
Acetone 100%	L
Benzyl Alcohol 100%	R
n-Butyl Alcohol	R
Ethyl Alcohol 100%	R
Glycol Ether Acetone 100%	R
Hexane 100%	R
Is-o-Octane 100%	R
2-Propanol	R
Methyl Alcohol 100%	R
Methylene Chloride 100%	L

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## FloroCrete SLX Self-Leveling Slurry Applied Urethane Mortar

### FloroCrete SLX Neat System Application:

*Note: When no broadcast is used into the SLX, it is necessary to prime the surface first.*

**Do not use Flow Additive in a neat application of SLX.**

**1. Primer:** Prime with FloroCrete P Primer. Apply primer @ 5 to 10 mils (127-254 Microns). See FloroCrete P Tech Data Sheet and your Florock Representative for details.

**2. Mortar:** Premix FloroCrete SLX Component A and add Component C (dry material). Blend together with a "mudd mixer" for 30 seconds making sure aggregate is thoroughly wetted out. Scrape down sides and bottom of container with a flat or straight edge trowel to assure complete mixing. Add Part B to A & C and mix again for 60 seconds. Then, immediately dump mix onto floor for application. Be sure to MIX FULL KITS. As temperature will affect mixing, mix when air temperature is between 50° F and 70° F (7°-21°C).

*Note: Flash setting may occur if material remains in bucket too long (10 minutes is max.) or if left in a heap on floor.*

*Note: Best results are achieved when floor to be coated is divided into areas of 8-10 LF of wet edge per mechanic. Begin working away from or alongside a wall. Trowel a small area and measure thickness. Use this initial area as a "standard" and proceed.*

**Application:** Transport blended FloroCrete SLX to work area. Pour material from mixer pail along wet edge. Apply FloroCrete SLX with 1/2"

V- notched squeegee, then immediately back roll using a "loop" roller or a metal spiked roller (Midwest Rake p/n 48090) and roll over the area to achieve a uniform textured finish.

**3. Topcoat (Optional):** There are many topcoat options. Consult your Florock Representative for details.

Chemical Resistance of Mortar (Continued from pg 2)	
Reagents	Results
Mineral Spirits 100&	R
Pentane 100%	R
Petroleum Ether 100%	R
Boric Acid 100%	R
Muratic Acid 80%	R
Ethylene Glycol 100%	R
Copper Sulfate (in solution)	R
Benzoic Acid 100%	R
Diesel Fuel 100%	R
Stearic Acid	R
Amyl Acetone	R
Fatty Acid 100%	R
Toluene 100%	R
Xylene 100%	R
Antifreeze 100%	R
Glycol Ether PM 100%	R
Transmission Fluid 100%	R
Freon 100%	R
Glycerin 96%	R
Oleic Acid	R
100 Solvent 100%	R
Kerosene 100%	R
Mineral Oil 100%	R
Brake Fluid 100%	R
Sugar Solution (sat'd)	R
Motor Oil 100%	R
Water	R
MEK & MIBK	L

*An epoxy topcoat should not be used as a topcoat when thermal shock resistance is required or when grease resistance is required (coolers, kitchens).*

Key:

**R** - Resistance. Appropriate for long term spills and secondary containment.

**L** - Limited resistance. Appropriate for splashing and spills that are not promptly cleaned up

**F** - Not Recommended.

## FloroCrete SLX Slurry Broadcast System Application:

*Note: No priming or sealing of the substrate is required, so long as there is no MVT problem. If MVT is a concern, contact your Florock Rep concerning the Florock Floroproof system.*

**1. Mortar:** Premix FloroCrete SLX Component A and add Component C (dry material). Blend together with a "mudd mixer" for 30 seconds making sure aggregate is thoroughly wetted out. Scrape down sides and bottom of container with a flat or straight edge trowel to assure complete mixing. Add Part B to A & C and mix again for 60 seconds. Then, immediately dump mix onto floor for application. Be sure to MIX FULL KITS. As temperature will affect mixing, mix when air temperature is between 50° F and 70° F (10°-21°C).

*Note: Flash setting may occur if material remains in bucket too long (10 minutes is max.) or if left in a heap on floor.*

*Note: Best results are achieved when floor to be coated is divided into areas of 8-10 LF of wet edge per mechanic. Begin working away from or alongside a wall. Trowel a small area and measure thickness. Use this initial area as a "standard" and proceed.*

**Application:** Transport blended FloroCrete SLX to work area. Pour material from mixer pail along wet edge. Apply FloroCrete SLX with 1/2"

V- notched squeegee, then immediately back roll using a "loop" roller or a metal spiked roller (Midwest Rake p/n 48090) and roll over the area to achieve a uniform textured finish. This mix will cover approximately 55 SF.

**2. Broadcast:** Use 40/100 Mesh Silica Sand, Color Quartz or Vinyl Chips. Broadcast to rejection. For aggregates, figure 1/2 lb. per SF (2.4 kg/m<sup>2</sup>) and for the Vinyl Chips, figure 1 lb. per 9 SF (.55kg/m<sup>2</sup>).

### 3. Topcoat:

There are many topcoat options. Consult your Florock Representative for details.

*An epoxy topcoat should not be used as a topcoat when thermal shock resistance is required or when grease resistance is required (coolers, kitchens).*

**Cure Time:** The chemical curing of FloroCrete SLX is affected by temperature. At 70° F (21°C) curing temperature, expect to walk on the floor in 12 hours, with full traffic after 24 hours. At 45° F (7°C) curing temperature, allowing foot traffic may take 48 hours or longer; therefore, it is imperative that air and substrate temperatures be kept above 70° F (21°C) for best cure.

### Tech Notes:

*FloroCrete Flow Additive S-75 - Add up to 1 pint to a kit of FloroCrete HD, RT or SLX (broadcast) to improve the flow, especially in cold or warm conditions. Excessive Flow additive could affect the surface on a neat system.*

*FloroCrete Catalyst R-10 - Add 2-16 oz. per kit to shorten the cure time. The amount of catalyst added will be based on the temperature & speed of cure desired. Catalyst will shorten the pot life. Contact your Florock Representative for details.*

**Maintenance:** FloroCrete SLX System floors can be maintained by using a stiff mechanical brush and/or hot pressure washer or steam cleaner. Surfactant-type detergents or degreasers may be used. However, avoid products containing Phenol, as this may damage color. Though FloroCrete is highly chemical resistant, a test patch is recommended prior to using any harsh cleaners.

**Please read material safety data before using product.**

### Disclaimer:

All statements and recommendations are based on experience we believe to be reliable. The use or the application of these products being beyond the control of the Seller or Manufacturer, neither Seller nor Manufacturer make any warranty, expressed or implied, as to results or hazard from its use. The suitability, risk and liability of a product for an intended use shall be solely up to the User.