

## FloroCrete P Urethane Primer

### Product Description:

FloroCrete P is a solvent free, low odour primer for use with various Florock systems. It can be installed from 125 to 250 microns dft.

### Typical Uses, Applications:

FloroCrete P may be used as 1) part of the Florock FloroProof moisture mitigation system (contact your Florock representative for details) 2) a primer under FloroCrete SLX when there will not be a broadcast 3) a primer under the FloroCrete RT or HD system when the substrate is porous or 4) when coving with FloroCrete.

FloroCrete P is ideally suited for priming in Commercial, industrial and institutional applications, such as:

- Kitchen fryer areas
- Vehicle service areas
- Food processing plants
- Breweries, wineries & dairies
- Coolers & freezers
- Bottling areas
- Laboratories
- Exterior surfaces
- Chemical processing
- Sanitise/Wash areas

### Product Advantages:

- Contains FloroSeptic anti-microbial additive
- Thermal shock resistant
- High chemical & solvent resistance
- High acid & alkali resistance
- Low odour/solvent free installation
- Quick curing formula
- Meets USDA, FDA & OSHA requirements
- Slip resistant
- Tolerates dampness

### Packaging:

FloroCrete P is packaged and sold by the component. Each kit consists of:

- Part A – Polyol component
- Part B – Isocyanate component
- Part C – FloroCrete P filler

(Broadcast aggregates are sold separately)

### Physical Properties

Property	Test Method	Results
Compressive Strength	ASTM C579	62 N/mm <sup>2</sup>
Tensile Strength	ASTM D638	17.24 N/mm <sup>2</sup>
Flexural Strength	ASTM D790	35.16 N/mm <sup>2</sup>
Bond Strength	ASTM D4541	>3 N/mm <sup>2</sup>
Co-Efficient of Thermal Expansion	ASTM C531	1.1x10 <sup>-2</sup> mm/mm/°C
Impact Resistance	ASTM D2794	184 kg cm
Flammability	ASTM E-648	Class I
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		-45°C to 114°C
*Workable Life, 1 Mixed kit		15 min.
<b>**Cure time at 21° C @ 50% RH</b>		
Recoat time w/High performance urethane or epoxy topcoats		12-16 hours
Clean-up Solvent		MEK

**Colours:** FloroCrete P is available in Grey, Tile Red and Neutral.

**Storage:** All containers should be stored at 7° C to 29° C and be kept tightly sealed and out of direct sunlight.

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

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

**Coverage:**

Apply FloroCrete P at 125 to 250 microns dft. Each kit will cover 28m<sup>2</sup> @ 250 microns or 56m<sup>2</sup> @ 125 microns.

**Limitations:** FloroCrete P is not to be applied in temperatures below 7° C or above 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 abrasive blast cleaning, diamond grinding 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 20 N/mm<sup>2</sup> do not install FloroCrete P until concrete has been replaced.

**Expansion Joints:** In addition to standard slab expansion joint construction, place joints wherever FloroCrete P 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 FloroFlex 6500 JS elastomeric sealant (see System 6500 JS tech data).

**FloroCrete P Mixing & Application:**

**Mixing Instructions:** Premix FloroCrete P component A and add component C (dry material). Blend together with a forced action mixer for 30 seconds making sure powder 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. Be sure to MIX FULL KITS.

**Primer Application Method:** Pour FloroCrete P onto floor. Using a squeegee pull material out at the recommended spread rate. Back roll with a short or medium nap roller, being sure to wet out entire surface. Pull back lightly with roller, spreading to the desired thickness (typically 125-250 microns).

Chemical Resistance of Mortar	
Reagents	Results
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 P Urethane Primer

Roll a newly mixed batch across the transition of the previously applied materials before it begins to set, keeping a “wet edge.”

**Technical Notes:**

*FloroCrete Catalyst – May be added to shorten cure time. Contact your Florock Representative for details.*

**Maintenance:**

FloroCrete 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 colour. 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.

Chemical Resistance of Mortar	
Reagents	Results
Mineral Spirits 100%	R
Pentane 100%	R
Petroleum Ether 100%	R
Boric Acid 100%	R
Muriatic 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

**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.