KRETE URETHANE SLURRY SL

PRODUCT TECHNICAL DATA SHEET

PPC KRETE URETHANE SLURRY SL is a four components polyurethane self-level system. The standard thickness for PPC KRETE URETHANE SLURRY SL is between 1/8" to 3/16". Attractive smooth matt colored floor finish. The high fluid efficiency allows for easy installation and high coverage performance in a short time.

WHERE TO USE

- Food preparation areas
- Food and beverage facilities
- Commercial kitchens
- Restrooms and locker rooms
- Pharmaceutical industries.
- Warehouses and auto service centers
- Laboratories
- Grow rooms
- Refrigerated storage areas
- PPC KRETE URETHANE SLURRY SL can be used as a protective overlay on a new floor or to repair floor

ADVANTAGES

- Impact resistance
- Rapid cure and hardness development
- Seamless & hygienic finish, no crevices where dirt and bacteria can dwell.
- Meets the requirements of JIS Z 2801: 2000 for the Antimicrobial activity
- Certification ISO 9001: 2015
- HACCP: International Food Safety Program
- Temperature resistant 26.5F to 185F.
- Excellence chemical resistance
- Moisture resistance
- No moisture testing is required.
- Acceptable for use in USDA inspected facilities
- Long-term toughness and durability in extreme industrial environments
- Easy to clean, low maintenance requirement.
- High abrasion resistance
- Low odor during installation
- Smooth surface
- Water based

COVERAGE RATES

Each set of PPC KRETE URETHANE SLURRY SL will cover approximately as follow:

1. 35 sf for 1/8" thickness
2. 23 sf for 3/16" thickness

SHELF LIFE AND STORAGE

Store unopened in dry conditions at 75-95°F. Avoid excessive heat and do not freeze. The shelf life is 12 months in original, unopened container.

PACKAGING and COLORS

Packaging: PPC KRETE URETHANE SLURRY SL is packaged in 44 lbs. per kit, consist of: Part A resin, Part B Hardener, Part C1 Powder and Part C2 (Easily identifiable Pigment Pack)

Available in six standard colors; Cream, Green, Yellow, Red, Gray, Light gray

Refer to PPC color chart.

MIX RATIO

All the materials contained in the kit (Part A, Part B, Part C1 and Part C2) must be mixed, DO NOT mix portions lower than those contained in the COMPLETE KIT.

PHYSICAL CHARACTERISTICS

Compressive Strength .....9,050 psi after 7 days
(ASTM C-579)

Tensile Strength (ASTM C-307).....2,175 psi
Tensile Strength (ASTM D-638).....2,200 psi

Flexural Strength (ASTM C-580) .....2,900 psi
Flexural Strength (ASTM D-790).....5,200 psi

Hardness 84-85
(ASTM C-2240/Shore D Durometer)

Abrasion Resistance ..... 25mg (CS-17 wheel 1000 Cycles)
ASTM D4060 Taber Abrader)

Coefficient of ..... α » 1.5 x 10^{-5} per ^{o}F
Thermal Expansion
(ASTM E 381, ASTM D-696, ISO 11359)
(temperature range: -4 ^{o}F to +140 ^{o}F)

Bond strength ..... > 400 psi
(ASTM C-4541) (100% concrete failure)

Impact resistance ..... >160 in./lbs.
(ASTM C-4226)

Water absorption 0%
(ASTM C-413)

Slip Resistance .....Dry 70 Wet 25
Pendulum Slip Test

Temperature Resistance:
- 1/8" 27$_{0}$F to 185$_{0}$F
- 3/16" 23$_{0}$F to 185$_{0}$F

VOC (ISO 11890-2: 2020).....No Detected

KEY

Chemical Resistance ratings are as follows:

Rating	Description	Explanation
E	Excellent	No deleterious action after long term contact.
M	Medium Term	Unaffected after 1 month contact but may begin to fail thereafter
S	Short Term	Unaffected after 24 hours contact but may begin to fail thereafter
NR	Not Resistant	Attacked on contact or within 2-3 hours

CHEMICAL CHARACTERISTICS

Chemical	%	PPC KRETE URETHANE SLURRY SL
Acetic Acid @30°C	30	E
Aluminium Sulphate @ 30°C	30	E
Benzene		E
Chicken Fats		E
Citric acid @ 30°C	30	E
Diethylene glycol monobutyl ether		M
Ethanol @ 30°C	96	E
Ethyl Benzene		M
Hydrogen peroxide @ 30°C	100	E
Kerosene		E
Methylene chloride		NR
Naphtha (petroleum)		E
Naphtha (solvent)		E
Nitric acid @ 30°C	30	E
Phenol		NR
Phosphoric acid @ 30°C	50	E
Sodium hydroxide @ 30°C	50	E
Sulphuric acid @ 100°C	10	M
Sulphuric acid @ 30°C	20	E
Sulphuric acid @ 30°C	30	M
Sulphuric acid @ 30°C	50	M
Sulphuric acid @ 30°C	98	NR
Trixylyl phosphate		E
Urea @ 30oC	30	E
XYLENE		E

OVERVIEW OF INSTALLATION STEPS

Mandatory Mockup: A 100-200 sq/ft mockup should be installed as a guide for installation and quality control panel days or weeks before the actual installation of the coating system. The mockup should be approved by an authorized representative of the Property Management for Slip Resistance, aesthetics, and functionality.

Substrate: PPC KRETE URETHANE SLURRY SL is suitable for application over concrete, wood, tile or metal. Not recommended on asphalt or painted surface.

Substrate preparation: Proper preparation is critical to ensure an adequate bond. The substrate must be dry and free of grease, fats, oil and laitance. Totally enclosed shot blasting or scarification. The surface must show an open textured surface like a 30-grit sandpaper or CSP 2-3.

Priming: PPC-FLOOR Primer may be necessary for applications of PPC KRETE URETHANE SLURRY SL over porous substrates. The primer system must be cured to a tack-free state before applying PPC KRETE URETHANE SLURRY SL.

Mixing: Add Part B and Part C2 (Pigment Pack) into mixing pail. Mix with the blender for 30 seconds. Add Part A mixing with blender for 30 seconds and Part C1 into mixing pail. Allow the contents to mix until aggregate is thoroughly "wet out" for 30 seconds.

Working time PPC KRETE URETHANE SLURRY SL has a working time of approximately 23-27 minutes at 72°F. The working time will vary depending on temperature and relative humidity.

Hardening Time PPC KRETE URETHANE SLURRY SL has the following hardening times 72F

- 12 hours for foot traffic.
- 24 hours for common industrial spillages and heavy traffic.
- 5 days for fully chemical cure.

Application:

1. Material must be used immediately after mixing.
2. Use screed rake to distribute the mixture into the floor. Scatter the wet surface to full cover using silica aggregate at an approximate rate of 0.4 lb/sf. Allow to cure overnight.
3. Use V-notched hand trowel pull the trowel through the material at right angles to the floor.
4. Use a spiked roller to roll the material for allow air to escape and for the aggregate to be pushed down allowing liquids to come to surface.
5. Spray down **Premera T2 MCM** topcoat to provide superior resistance to harsh chemicals, abrasion, mold, mildew, moss, chlorides & salt spray, acid rain, UV damage, oxidation, animal & bird waste damage, gum, and graffiti.

LOW TEMPERATURE RESISTANCE

PPC KRETE URETHANE SLURRY SL has been tested for thermal cycling and freeze–thaw performance in accordance with ASTM C666 (Resistance of Concrete to Rapid Freezing and Thawing) and ASTM D4060 (Abrasion Resistance). The system is capable of maintaining adhesion, compressive strength, and impact resistance when exposed to low temperatures down to **-40°F**, provided that the underlying substrate (concrete or other approved surface) is also designed and capable of withstanding such conditions.

To ensure proper performance, temperature reduction must occur gradually over a minimum of **24 hours**, allowing the urethane matrix to accommodate dimensional changes and avoid thermal shock. Sudden exposure to deep freeze conditions may compromise bond integrity or induce microcracking in the substrate.

Thermal conductivity and coefficient of expansion values are comparable to high-performance urethane concretes, minimizing stress during temperature cycling. Independent testing and field performance confirm that PPC KRETE URETHANE SLURRY SL retains its physical properties and structural durability in refrigerated and freezer applications where gradual cooling protocols are observed.

LIMITATION

Avoid contact with Part A and B as they may cause skin and/or eye irritation. In case of contact, immediately flush area with copious amounts of clean water for at least 15 minutes. Seek medical attention. Applicators should cover hands with impervious gloves. Wash hands thoroughly with soap and water after use, and before eating, smoking, etc.

LIMITED WARRANTY

PPC warrants its products to be free of manufacturing defects and that they will meet PPC current published physical properties. PPC warrants that its products, when properly installed by a state licensed contractor according

to PPC guide specifications and product data sheets over a sound, properly prepared substrate, will not fail for a period of 12 months. Seller's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by PPC of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. PPC shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. PPC shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. PPC reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and PPC makes no claim that these tests or any other tests, accurately represent all environments. For further information please contact us at the following email address: orders@premierprotectivecoatings.com or visiting www.premierprotectivecoatings.com

DISPOSAL

Any surplus material, including both Part A and Part B components, should be combined and allowed to cure. Upon curing, the product can be disposed of without any restrictive conditions. Uncured materials should be securely stored in an appropriate sealed container and disposed of in strict adherence to the applicable provincial, state, municipal, and federal regulations.

CAUTION

ALWAYS KEEP OUT OF THE REACH OF CHILDREN
KEEP FROM FREEZING CONDITIONS
INTENDED FOR INDUSTRIAL USE ONLY