U.S. RESIN SUPPLY · BUILT FOR INSTALLERS

U.C. PROCRETE SLURRY™

U.C.ProCrete

FOUR-COMPONENT POLYURETHANE SELF-LEVELING SYSTEM

MASTERFORMAT™ 09 67 00

1/8" – 3/16"	44 LB KIT	10–15 MIN	35 / 23 FT²
STANDARD THICKNESS	4 COMPONENTS	WORKING TIME @ 86°F	PER KIT @ 1/8" / 3/16"

PRODUCT DESCRIPTION

U.C. ProCrete Slurry is a four-component polyurethane self-leveling system. The standard thickness is 1/8" to 3/16". It provides an attractive smooth, matte, 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
- Protective overlay on a new floor, or to repair a floor

ADVANTAGES

- ☑ Impact resistance
- ☑ Rapid cure and hardness development
- ☑ Seamless and hygienic finish, with no crevices where dirt and bacteria can dwell
- ☑ Meets the requirements of JIS Z 2801:2000 for antimicrobial activity
- ☑ Temperature resistant 26.5°F to 185°F
- ☑ Excellent chemical resistance
- ☑ Moisture resistance
- ☑ No moisture testing 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

TYPICAL SYSTEM BUILD

1. SILICA AGGREGATE BROADCAST (NON-SLIP, AS REQUIRED)
2. **U.C. PROCRETE SLURRY · 1/8" – 3/16"**
3. PRIMER (POROUS SUBSTRATES, IF NECESSARY)
4. PREPARED SUBSTRATE · CSP 2-3

Illustrative only. Highlighted layer = this product. Confirm system design with your U.S. Resin Supply representative.

PHYSICAL CHARACTERISTICS

PROPERTY	VALUE	REFERENCE
Compressive strength	9,050 psi after 7 days	ASTM C-579
Tensile strength	2,175 psi	ASTM C-307
Tensile strength	2,200 psi	ASTM D-638
Flexural strength	2,900 psi	ASTM C-580
Flexural strength	5,200 psi	ASTM D-790
Hardness (Shore D)	84–85	ASTM C-2240
Abrasion resistance	25 mg (CS-17 wheel, 1,000 cycles)	ASTM D4060 Taber Abraser
Coeff. of thermal expansion	$\alpha \approx 1.5\times10^{-5}$ per °F (−4°F to +140°F)	ASTM E 381, ASTM D-696, ISO 11359
Bond strength	> 400 psi (100% concrete failure)	ASTM C-4541
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°F to 185°F 3/16": 23°F to 185°F	—

PRODUCT DATA

VOC	**Testing Method: ISO 11890-2: 2020, Not Detected**
Components	**4 · Part A resin, Part B hardener, Part C powder, Part D pigment pack**
Kit size	**44 lb per kit**
Coverage per kit	**≈ 35 sf @ 1/8" · ≈ 23 sf @ 3/16"**
Working time	**≈ 10–15 min @ 86°F**
Foot traffic	**12 hours @ 86°F**
Spillages / heavy traffic	**24 hours @ 86°F**
Full chemical cure	**5 days @ 86°F**
Shelf life	**12 months, original unopened container**
Storage	**75–95°F, dry; do not freeze**

PACKAGING AND COLORS

U.C. ProCrete Slurry is packaged at 44 lb per kit, consisting of Part A resin, Part B hardener, Part C powder and Part D (easily identifiable pigment pack).

Available in six standard colors: Cream, Green, Yellow, Red, Gray and Light gray. Refer to the U.C. ProCrete color chart.



Colors shown for reference only; screen and print colors vary. Always verify from a physical sample.

MIX RATIO

All materials contained in the kit (Part A, Part B, Part C and Part D) must be mixed. **Do not mix portions lower than those contained in the complete kit.**

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 the original, unopened container.

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: U.C. ProCrete Slurry is suitable for application over concrete, wood, tile or metal. Not recommended on asphalt or painted surfaces.

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

Priming: A U.C. ProCrete Slurry primer may be necessary for applications over porous substrates. The primer system must be cured to a tack-free state before applying U.C. ProCrete Slurry.

MIXING AND WORKING TIME

Mixing: Add Part B and the pigment pack (Part D) into the mixing pail. Mix with the blender for 30 seconds. Add Part A and mix with the blender for 30 seconds, then add Part C (powder) into the pail. Allow the contents to mix until the aggregate is thoroughly "wet out," about 30 seconds.

Working time: U.C. ProCrete Slurry has a working time of approximately 10–15 minutes at 86°F. The working time will vary depending on temperature and relative humidity.

Hardening time at 86°F: 12 hours for foot traffic · 24 hours for common industrial spillages and heavy traffic · 5 days for full chemical cure.

APPLICATION

1. Material must be used immediately after mixing. Use a screed rake to distribute the mixture over the floor.
2. 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 a V-notched hand trowel and pull the trowel through the material at right angles to the floor.
4. Use a spiked roller to roll the material. This allows air to escape and the aggregate to be pushed down, allowing liquids to come to the surface.

LIMITATION

Avoid contact with Part A and Part B as they may cause skin and/or eye irritation. In case of contact, immediately flush the 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.

CAUTION

ALWAYS KEEP OUT OF REACH OF CHILDREN

KEEP FROM FREEZING CONDITIONS

INTENDED FOR INDUSTRIAL USE ONLY

CHEMICAL RESISTANCE

CHEMICAL	CONC. %	RATING
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 @ 30°C	30	E
Xylene	—	E

RATING	DESCRIPTION	EXPLANATION
E	Excellent	No deleterious action after long-term contact.
M	Medium term	Unaffected after 1 month of contact but may begin to fail thereafter.
S	Short term	Unaffected after 24 hours of contact but may begin to fail thereafter.
NR	Not resistant	Attacked on contact or within 2–3 hours.

LIMITED WARRANTY

U.S. Resin Supply warrants its products to be free of manufacturing defects and that they will meet U.S. Resin Supply current published physical properties. U.S. Resin Supply warrants that its products, when properly installed by a state licensed contractor according to U.S. Resin Supply 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 U.S. Resin Supply of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. U.S. Resin Supply 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. U.S. Resin Supply 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. U.S. Resin Supply 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 user's responsibility to satisfy himself, by his own information and tests, 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 is the only one 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 U.S. Resin Supply makes no claim that these tests or any other tests accurately represent all environments. For further information please contact us at hello@usresinsupply.com or www.usresinsupply.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.