



[www.uspolymersurfaces.com](http://www.uspolymersurfaces.com)  
[info@uspolymersurfaces.com](mailto:info@uspolymersurfaces.com)

# POLYSURF CRETE U TR (Trowel)

## Product Data Sheet

### Technical Data (Cure Time at 70°F (24°C), 50% R.H.)

Color	Red, Grey, Tan
Hardness, ASTM D-2240	75 ± 5 Shore D
Compressive Strength, ASTM C-579	9000 psi
Tensile Strength, ASTM D-412	2500 psi
Flexural Strength, ASTM D-580	3700 psi
Flexural Strength, ASTM D-790	5100 psi
Adhesion, ASTM D-4541	>400
Impact Resistance, ASTM D-2794	pass
UV Resistance, F-52505	no chalking or loss of adhesion
Water Absorption &, ASTM C413	<0.1%
Flammability, ASTM D-648	<1.07 watts/cm 3
Flame Spread, ADTM E-84	Class A
Abrasion, ASTM D-4060	20-30 mgs lost
Coefficient of Friction, ASTM D-2047	0.9
Thermal Shock, Mil F-52505	no chalking or loss of adhesion
Hydrostatic Pressure	12 lbs psi
Density, ASTM C-905	15 lbs/gal

### POLYSURF CRETE U TR (Trowel) Urethane Mortar Trowel

#### Product Description:

PolySurf CRETE U TR is a 3-part, 100% solids, aromatic, cementitious urethane mortar trowel system typically applied at 1/4" (6.35mm) to 3/8" (9.52mm) thickness. It has a textured matte finish and can be used to form containment beams, integral cove bases for seamless wall to floor protection, and to slope floors in horizontal applications.

PolySurf CRETE U TR is custom formulated to provide a strong barrier against hydrostatic pressure and thermal shock while delivering a quick turnaround cure time. It is extremely receptive to decorative aggregate broadcast and acts as an aggressive barrier against chemicals, abrasive wear and heavy impact. PolySurf CRETE U TR can also be used to repair concrete surfaces.

PolySurf CRETE U TR has proven its protective strength in cold rooms, freezers and commercial kitchens. It is especially well suited for tough, harsh environments that require a trowel solution applied below 40°F. PolySurf CRETE U TR is the recommended cost-effective solution for flooring contractors interested in avoiding operational downtime.

#### Features:

- Trowel Applied
- No Blistering, No Chipping
- Can Be Applied Below 40°F
- Quick Return-To-Service (4-6 hrs.)
- Excellent Thermal Shock and Impact Resistance
- Superior Protection Against Hydrostatic Pressure
- Meets California VOC and SCAQMD Requirements

#### Typical Floor Uses:

- Cold Rooms/Freezers
- Pharmaceutical
- Manufacturing
- Warehouse/Storage
- Commercial Kitchens
- Food & Beverage
- Metal Processing
- Electronic Assembly

#### Colors:

Red, Grey, Tan

#### Packaging:

Available in pre-packaged kits. Colorant is furnished separately. Each kit consists of:

- Part A – Urethane Liquid
- Part B – Hardening Catalyst
- Part C – 44 lb. Bag of Dry Aggregate

#### Coverage Rates:

PolySurf CRETE U TR is typically applied between 1/4" to 3/8" thickness to obtain a dry film thickness coverage of:

- 25-30 sq. ft. @ 1/4" (6.35mm)
- 16-20 sq. ft. @ 3/8" (9.52mm)

### Chemical Resistance (Based on ASTM D-814)

POLYSURF CRETE U TR was unaffected by the following chemicals:

<b>Acidic Chemicals</b>
Acetic Acid, 1%
Acetic Acid, 10%
Hydrochloric Acid, 1%
Hydrochloric Acid, 10%
Sulfuric Acid, 1%
Sulfuric Acid, 10%
<b>Basic Chemicals</b>
Ammonium Hydroxide, 1%
Ammonium Hydroxide, 10%
<b>Oils, Fuels and Other Chemicals</b>
Hydraulic Oil
Motor Oil
Unleaded Gas (Regular)
Unleaded Gas (Premium)
Hexane
IPA
MIBK
Xylene

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**Storage:**

All containers should be stored between 45°F to 85°F and be kept tightly sealed and out of direct sunlight.

**Surface Preparation:**

PolySurf CRETE U TR can be applied to a variety of substrates, if the substrate is properly prepared. Preparation of surfaces other than concrete will depend on the type of substrate, such as wood, concrete block, quarry tile, etc.

Concrete surfaces must be abrasive blasted to remove all surface contaminants and laitance. The prepared concrete shall have a surface profile equal to CSP 4-6. After initial preparation has occurred, inspect the concrete for bug holes, voids, fins and other imperfections.

**Limitations:**

Apply PolySurf CRETE U TR only to dry, properly prepared, uncoated, reinforced concrete floor slabs that have a moisture content of <10%. Do not apply if air temperature is within 5°F of dew point.

**Product Instructions**

For complete information associated with the application of PolySurf CRETE U TR refer to the general guidelines section of the U.S. Polymer Surfaces catalog that describes the surface preparation, job conditions, finishing details and other necessary information.

**Aggregate Mix**

Add pre-packaged PolySurf CRETE U TR kit Parts A & B together and blend using a "mud mixer" for 30 seconds. Then add the pre-packaged aggregate Part C and mix for 60 to 120 seconds or until the color is uniform. Temperature will affect mixing.

**POLYSURF CRETE U TR Application**

Immediately pour the blended PolySurf CRETE U TR mixture onto the floor and begin application. Trowel, level and roll with a 3/8-inch loop or spiked roller to bring resin to the surface and eliminate trowel marks.

PolySurf CRETE U TR is typically applied between 1/4" (6.35mm) to 3/8" (9.52mm) thickness.

**Warning:** The products in this system contain Isocyanate and solvent.

**Limited Warranty:**

**Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local U.S. Polymer Surfaces International representative or visit our website for current technical data and instructions.**

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