



TURBO-LINER CRETE-U

TROWEL GRADE

*Urethane Mortar Trowel
Product Data Sheet*

DESCRIPTION:

Turbo-Liner Crete-U 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.

Turbo-Liner Crete-U 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. Turbo-Liner Crete-U can also be used to repair concrete surfaces.

Turbo-Liner Crete-U 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. Turbo-Liner Crete-U 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 (4-6hrs.)
- ❖ 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

PACKAGING:

Turbo-Liner Crete-U is available in pre-packaged kits. Colorant is furnished separately. Each kit consists of:

- One Part A - Urethane Liquid
- One Part B - Hardening Catalyst
- One Part C - 44 lb Bag of Dry Mortar

COVERAGE RATE:

Turbo-Liner Crete-U trowel 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)

SURFACE PREPARATION:

Turbo-Liner Crete-U can be applied to a variety of substrates if 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 must have a surface profile equal to CSP 4-6. After initial preparation has been completed, inspect the concrete for bug holes, voids, fins and other imperfections.

LIMITATIONS:

Apply Turbo-Liner Crete-U 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.

Typical Physical Properties	
Cure Time at 70°F (24°C) @ 50% R.H.	
Color	Red, Gray, Tan
Coverage Rate	See Guide for Specifications
Hardness, ASTM D-2240	75-80 (Shore D)
Compressive Strength, ASTM C-579	9,000 (psi)
Tensile Strength, ASTM D-638	2,500 (psi)
Flexural Strength, ASTM D-580	3,700 (psi)
Flexural Strength, ASTM D-790	5,100 (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 C-413	<0.1%
Flammability, ASTM D-648	<1.07 watts/cm 3
Flame Spread, ASTM 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 cracking or loss of adhesion
Hydrostatic Pressure	12 lbs (psi)
Density, ASTM C-905	15 lbs/gal



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PRODUCT INSTRUCTIONS:

For complete information associated with the application of Turbo-Liner Crete-U, refer to the general guidelines section of the catalog that describes surface preparation, job conditions, finishing details and other necessary information.

AGGREGATE MIX:

Add pre-packaged Turbo-Liner Crete-U 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.

APPLICATION:

Immediately pour the blended Turbo-Liner Crete-U 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.

Turbo-Liner Crete-U is typically applied between 1/4" (6.35mm) to 3/8" (9.52mm) thickness.

STORAGE:

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

WARNING: The products in this system contain isocyanates and solvent.

CHEMICAL RESISTANCE (Based on ASTM D-814)

Turbo-Liner Crete-U was unaffected by the following chemicals:

Acidic Chemicals

Acetic Acid, 1%
Acetic Acid, 10%
Hydrochloric Acid, 1%
Hydrochloric Acid, 10%
Sulfuric Acid, 1%
Sulfuric Acid, 10%

Basic Chemicals

Ammonium Hydroxide, 1%
Ammonium Hydroxide, 10%

Oils, Fuels and Other Chemicals

Hydraulic Oil
Motor Oil
Unleaded Gas (Regular)
Unleaded Gas (Premium)
Hexane
IPA
MIBK
Xylene

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 Turbo Products representative or visit our website for current technical data and instructions.

DISCLAIMER

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