

U-COAT URETHANE MORTAR 71

A 100% SOLIDS, CEMENTITIOUS, URETHANE MORTAR SYSTEM APPLIED BY TROWEL FOR APPLICATIONS 1/4" TO 3/8" THICKNESS

U-COAT URETHANE MORTAR 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. U-Coat Urethane Mortar 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. U-Coat Urethane Mortar can also be used to repair concrete surfaces. U-Coat Urethane Mortar provides 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. U-Coat Urethane Mortar 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
- Commercial Kitchens
- Pharmaceutical
- Food & Beverage
- Manufacturing
- Metal Processing
- Warehouse/Storage
- Electronic Assembly

PACKAGING

U-Coat Urethane Mortar 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

U-Coat Urethane Mortar 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)

STORAGE

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

SURFACE PREPARATION

U-Coat Urethane Mortar 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,

TECHNICAL DATA : U-COAT MORTAR SL at 70°F (24°C) @ 50% R.H.

| | |
|-------------------------------------------|---------------------------------|
| Color..... | Red, Gray, Tan |
| Hardness, ASTM D-2240..... | 75-80 (Shore D) |
| Compressive Strength, ASTM C-579..... | 9000 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 |

CHEMICAL RESISTANCE (Based on ASTM D-814)

U-Coat Urethane Mortar 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..... | Hexane |
| Motor Oil..... | IPA |
| Unleaded Gas (Regular)..... | MIBK |
| Unleaded Gas (Premium) | |



60 REAR NEWHALL STREET

PHONE: 978-453-8881

LOWELL, MA. 01852

FAX: 978-453-2416

inspect the concrete for bug holes, voids, fins and other imperfections.

LIMITATIONS

Apply U-Coat Urethane Mortar 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 U-Coat Urethane Mortar, refer to the general guidelines section of the U-Coat catalog that describes surface preparation, job conditions, finishing details and other necessary information.

AGGREGATE MIX

Add pre-packaged U-Coat Urethane Mortar 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 U-Coat Urethane Mortar 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.

U-Coat Urethane Mortar is typically applied between 1/4" (6.35mm) to 3/8" (9.52mm) thickness.

WARNING

This product Isocyanates and solvent.

**For technical assistance call
978-453-8881.**

www.umaco.com

LIMITED WARRANTY

The manufacturer guarantees its products to be free of defects and the extent of its liability is limited to the purchase price of the materials only, if proved to be defective. Improper mixing, incorrect application or other factors beyond the control of the manufacturer or its dealers may produce unsatisfactory results and cannot be held to be the manufacturers or its dealers responsibility. There are no other guarantees either expressed or implied.

01/01/13

- Concrete Patching & Repair Products
- Masonry Waterproofing Products
- Acrylic Admixtures & Bonding Agents



www.umaco.com

- Decorative Masonry & Concrete Coatings
- Traditional & Synthetic Stucco Systems
- Flooring Underlayments & Resurfacers