



Urethane Concrete Pigmented Top Coat

DESCRIPTION

Morrците UC 1012 Topcoat is a three component, cementitious high build, water based pigmented urethane topcoat. It is engineered to provide excellent chemical resistant properties, high impact-resistance and very good durability against abrasion and mechanical damage.

This product can be used as a thin film, flooring system or as a top coat for Morrците UC 1010 and/or Morrците UC 1015. Applied thickness is 15-20 mils per coat.

TYPICAL USES

- Food processing
- Chemical processing and storage areas
- Laboratories
- Washrooms
- Warehouses

ADVANTAGES

- Easy to clean
- Easy to apply
- Long term durability
- Economical
- Rapid cure
- Abrasion Resistant
- Impact resistant
- No concrete primer or sealer required
- Faster installation
- Chemical resistant
- Easy to use

TYPICAL PHYSICAL PROPERTIES

Mix Ratio:	Pre-measured A and B components Plus 8lb. aggregate
Color:	Light Gray, Dark Gray, Blue, Green, Burnt Orange
Working Time:	20 minutes
Cure Time: @70°F +/-2°F	Recoat 6-8 hour Foot Traffic 10-12 hours Light traffic 4 days Full Cure 7 days
Hardener, Shore D	ASTM D2240 >75
Tensile strength:	ASTM D412 >2,000psi
Compression strength:	ASTM C579 >6,000psi
Flexural Strength:	ASTM C580 >4,000psi
Impact Resistance:	MIL-D-3134 withstands 16ft lb. w/o cracking, delaminating, chipping
Adhesion:	ACI 503R >400psi concrete failure
Abrasion Resistance:	ASTM D4060 20-30 mg loss CS17 Wheel, 100 cycles
Water absorption:	ASTM C413 Nil
Shrinkage	Nil

PACKAGING

- Component A: Pre-measured Unit
- Component B: Pre-measured Unit
- Component C: Aggregate 8lb. in bag (powder)

SURFACE PREPARATION

Concrete surfaces must be clean and sound. Remove all dust, dirt, existing paint films, efflorescence, exudates, laitance, form oils, hydraulic or fuel oils, brake fluid, grease, fungus, mildew, biological residues or any other contaminants which may prohibit good bond. Prepare the surface by any appropriate mechanical means in order to achieve a profile equivalent to ICRI-CSP 3. The compressive strength of the concrete substrate should be at least 3,625 psi (25 MPa) at 28 days and a minimum of 218 psi (1.5 MPa) in tension at the time of application. Contact MTT Technical sales rep for a recommendation.

MIXING AND APPLICATION

- **ORDER OF ADDITION: Resin, Aggregate, Hardener**
- **MIX FULL UNIT ONLY, DO NOT MIX PARTIAL UNITS**
- Pre-mix UC 1012 Part A (Resin) with UC1012 Part C (aggregate) per kit until lump free for about 1-2 minutes. The material will thicken and become creamy, which lessens the potential for fine cement/ pigment balls to form. Add Part B (Hardener) and mix until uniform in color for about a minute. Make sure there are no clumps in the mixed material.
- Apply UC1012 TC with trowel, squeegee, grout float and back roll with ¼"-3/8" nap roller to 10 mils film minimum thickness providing a uniform texture.
- Spread at a rate of 80-120 sq. feet per gallon. Take care not to puddle material to ensure uniform coverage.
- Allow material to dry (refer to cure time properties).
- If recoating is required, abrade surface before recoating.

LIMITATIONS

Prior to application, measure and confirm Substrate Moisture Content, Ambient Relative Humidity, Ambient and Surface Temperature and Dew Point. During installation, confirm and record above values at least once every 3 hours, or more frequently whenever conditions change (e.g. Ambient Temperature rises/falls, Relative Humidity increases/decreases, etc.)

Material Temperature: Precondition material for at least 24 hours between 65° to 75°F (18° to 24°C).

IMPORTANT: Product must be protected from freezing. If frozen, discard.

Ambient Temperature: Minimum/Maximum 50° / 85°F (10° / 30°C).

Substrate Temperature: Minimum/Maximum 50° / 85°F (10° / 30°C). Substrate temperature must be at least 5°F

(3°C) above measured Dew Point.

Mixing and Application attempted at Material, Ambient and / or Substrate Temperature conditions less than 65°F (18°C) will result in a decreased product workability and a slower cure rate.

Relative Ambient Humidity:

Minimum ambient humidity 30%.

Maximum ambient humidity 85% (during application and curing).

WARRANTY INFORMATION

Values stated herein are typical values based on periodic testing and product experience. MTT DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THOSE OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. Where customer demonstrates non-conformance of product to typical values stated herein, MTT will, supply replacement product or, at its discretion, credit customer's account for the purchase price of non-conforming product. Recommendations herein as to the surface preparation, application, maintenance, and other matters involving storage, handling, or use of product are based on the best information available. Because MTT has no control over such matters, or over substrate or other conditions that may affect ultimate performance, customer has the obligation to determine suitability of product for the intended purpose. MTT SHALL HAVE NO RESPONSIBILITY FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, EXEMPLARY OR PUNITIVE DAMAGES BUT ONLY FOR THE REPLACEMENT OR CREDIT MENTIONED ABOVE. All claims for replacement or credit must be made within one year from date of shipment. The sale and purchase of product from MTT are subject in each case to MTT's terms and conditions of purchase.

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