



CRETE-MAXX Urethane Cement Formula is our extreme solution to repair and cover your damaged concrete. Each pail contains individually packaged part A Resin and part B Hardener along with our uniquely specified Aggregate to ensure accurate mix ratios for maximum results. Our CRETE-MAXX line of products provide superior flexural, compressive, and tensile strength when compared with traditional concrete. CRETE-MAXX is designed to fully cure at a fraction of the time of concrete.

CRETE-MAXX ADVANTAGES

- 98% solids by weight
- Provides a permanent way to patch or resurface damaged concrete
- Three components individually packaged within each pail to ensure accurate mix ratio
- Aggregate unique to the specified formula included within each pail to save money and time
- Easily installed by in-house personnel
- Self-Priming to reduce application time
- Compressive strength up to several times over that of standard concrete
- Extended shelf life in an unopened container
- Provides excellent impact and abrasion resistance
- Tooling easily cleaned with water upon immediate completion of the application
- Trowels like wet sand to completely fill the damaged area
- Provides a smooth level surface
- Can be installed at various depths to create or enhance slope

LIMITATIONS:

- Color stability may be affected by environmental conditions such as high humidity or chemical exposure
- Product is not UV color stable and certain lighting such as sodium vapor lights may cause color changes
- Colors may vary from batch to batch due to variations in the silica filler. Mortar colors are not from our standard color chart
- Substrate temperature must be 5°F above dew point
- For chemical exposure areas, we recommend a suitable topcoat to reduce porosity and chemical migration
- All new concrete must be cured for at least 30 days prior to application
- See reverse side for application instructions
- Test data based on neat resin
- Physical properties are typical values and not specifications
- See reverse side for limitations of our liability and warranty

TYPICAL TECHNICAL DATA

CURE SCHEDULE (70°F)	
Pot Life	15 minutes
Light Foot Traffic	12 hours
Full Cure (Heavy Traffic)	24 hours
Application Temperature	45–85°F with relative humidity below 85%

CHEMICAL RESISTANCE TESTING:	
Spot testing per ASTM D1308 for mustard, ketchup, lactic acid, vinegar, and lemon juice were performed and no physical damage to the exposed surface was observed. In 24 hour immersion testing, the following results were observed:	
CHEMICAL EXPOSURE	PERFORMANCE
10% Acetic Acid	Passed
30% Nitric	Passed
Sodium Hydroxide 50%	Passed
Sulfuric Acid 30%	Passed
Xylene	Passed

URETHANE CEMENT FORMULA ADVANTAGES

CRETE-MAXX URETHANE CEMENT FORMULA

is a three part individually packaged A Resin and B Hardener along with our uniquely specified Aggregate to ensure accurate mix ratios. Designed for applications in areas subjected to thermal shock. CRETE-MAXX Urethane Cement Formula is ideal for areas routinely exposed to hot wash down cleaning. The low odor formula makes this our best option for commercial kitchens, food prep areas, and food and beverage facilities. Resistant to fungi growth also makes this an excellent option for restrooms and locker rooms.

6 GALLON PAIL (67 lbs):

SOLIDS BY WEIGHT:

Approximately 98% solids

VOLATILE ORGANIC CONTENT:

5 grams per liter

STANDARD COLORS:

Natural and Red

FILM THICKNESS:

Final film thickness varies, dependent on concrete conditions and system used. Typical finished installation thicknesses vary from 1/4" to 3/8"

COVERAGE PER PAIL:

23 sq ft @ 1/4"

PACKAGING INFORMATION / MIX RATIO:

5.0# part A, 5.0# part B, 52# aggregate. 1# bag of dry pigment (for Red only)

SHELF LIFE:

6 months for unopened and properly stored containers

FINISH CHARACTERISTICS:

Slightly textured finish

COMPRESSIVE STRENGTH:

7,800 PSI @ ASTM C-579

TENSILE STRENGTH:

975 PSI @ ASTM C-307

BOND STRENGTH:

100% concrete failure @ ASTM D-4541

FLEXURAL STRENGTH:

1,900 PSI @ ASTM C-580

HARDNESS:

Shore D = 80 typical

IMPACT RESISTANCE:

160 in lbs @ ASTM D-4226

RESISTANT TO FUNGI GROWTH:

Passes rating of 1 @ ASTM G-21

VISCOSITY

When mixed, it forms a trowelable paste

DOT CLASSIFICATIONS:

Not Regulated

HEAT RESISTANCE:

Can withstand up to 200°F

PRIMER:

None required

TOPCOAT:

None required

PRODUCT STORAGE

Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be above 55°F to prevent product crystallization.

PREPARATION

All dirt, oil, dust, foreign contaminants, and laitance must be removed to assure a trouble-free bond to the substrate. We recommend that an aggressive shot blast be performed prior to the application of this product. A less adequate method would be acid etching, but the etch should properly profile the substrate. All edges and around columns or beams should be mechanically scarified. All termination points should not be feather edged, but should be saw cut with the termination ending at the sawcut. All large cracks should be V cut and filled with appropriate crack filler. All expansion joints should be filled with appropriate joint filler. When overlaying an expansion joint, a single saw cut through the epoxy overlay will prevent random fracturing. A test should be made to determine that the concrete is dry; this can be done by placing a 4'x4' plastic sheet on the substrate and taping down the edges; if after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.

PRIMER

No primer is necessary. This material is self priming. However, any suitable primer can be used.

PRODUCT MIXING

It is important that the liquids be mixed together first. Mix the liquids in an oversized container thoroughly and until streak-free. After the liquids are thoroughly mixed, add in the aggregate. Mix

in the aggregate with slow-speed mixing equipment, such as a jiffy mixer or rotating bucket/stationary mixing blade assembly. It is equally important that enough time is spent mixing in the aggregate to insure that the aggregate is thoroughly wetted out. No induction time is necessary. Improper mixing may result in product failure.

PRODUCT APPLICATION

Apply the mixed material at 1/8" to 1/4" thickness. Apply the material with a hand trowel or other suitable application equipment. Maintain temperatures within the recommended ranges during the application and curing process. Do not over-trowel the mortar as this can cause blistering. Air currents directly across or above the mortar may also cause blistering.

RECOAT OR TOPCOAT

No recoating or topcoating is necessary. However, if you opt to topcoat the applied mortar, allow it to cure before topcoating. Many epoxies and urethanes can be used. Contact your sales representative for suitable topcoat selections.

CLEAN UP

Use xylol.

FLOOR CLEANING

Note: Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.