



TECHNICAL DATA SHEET

URETHANE CEMENT

PRODUCT DESCRIPTION

URETHANE CEMENT is also referred to as "Urethane cement", which specifically designed for harsh environments where chemical, thermal shock and abrasions resistance are required. It is three (3) component and self-leveling, Gauge rake and Spike Roller applied ok thickness. formula makes the flooring system resistant to growth of Microbi-al/bacterial.

AVAILABLE COLORS

- Gray

CONCRETE SURFACE PREPARATION

Before coating is applied, concrete must be:
Free of dirt, waxes, curing agents and other foreign materials
Clean – Contaminants removed • Profiled – Shot Blast to CSP of 4
Sound – All cracks and spalled areas repaired
Note: Mechanical preparation is the preferred method of preparing concrete for coating application. Shot-blasting is the only acceptable method. Mechanically profile the floor to a minimum CSP 4-5

PRODUCT DATA

Volumetric Ratio	1 to 1
Solids	100%(+/- 1%)
Coverage	45 sqft/gal.
Application Temperature	55°-90°F
Thinning	Not Required
Pot Life	2 min.
Working Time on Floor	10 min.
Cure Time	8-12 HOURS (FOOT-TRAFFIC)
Critical Re-Coat Time	24-48 HOURS (HEAVY-TRAFFIC)
Shelf Life	12 months
USDA Food & Beverage	Meets Req.

APPLICATIONS

- Food manufacturing & processing facilities
- Chemical processing plants
- Pharmaceutical plants
- Commercial kitchens
- Bottling sanitizing & wash areas
- Cold rooms & freezers

PACKAGING

3 GALLON KITS

PART A	8 IBS.
PART B	7 IBS.
PART C	40 IBS.

PROPERTY

Compressive Strength
Flexural Strength
Tensile Strength
Bond to Concrete
Impact Resistance
Abrasion Resistance
Hardness, Shore D
Flash Point

VALUE

9,800 psi
3,700 psi
3,900 psi
400 psi
PASS @ 125 mils
5 mg loss / CS-17 Wheel, 1000 cycles
15
>200°F

REFERENCE

ASTM C 579
ASTM D 790
ASTM D 638
ASTM D 4541 (Concrete fails at this point)
ASTM D 2794
ASTM D 4060
ASTM D 2240



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ADVANTAGES

- High resistance to chemical, impact and abrasion
- Solvent free - VOC Compliant
- Superior adhesion to various substrates
- Self Priming & no top coat is required
- Thermal stability
- Does not support the growth of fungus or bacteria
- Fast curing & installation time
- Can be applied to 7-10 day old concrete
- Wide temperature in-service range
- Meets USGBC LEED criteria

MILDEW

Voids, cracks and imperfections will be seen in finished coating if the concrete is not patched correctly. Patch concrete with E2U Patch. After the patching material is cured, diamond grind patch. If another patching material is used, contact a GLACIER EPOXY SUPPLY technical representative for a compatible and approved alternative.

MIXING

Ensure all components are between 50 - 90°F. URETHANE CEMENT kits are pre-measured, consisting of one jug of resin, one jug of hardener, one bag of aggregate. Pour entire contents of Part A & Part B into 5gal bucket or larger and mix well for 30 seconds. Slowly add Part C while under agitation. It is important to "wet-out" all parts of mix, scraping the bottom and sides of bucket. Mixing bucket and mixer/blades should be scrapped out thoroughly and cleaned with solvents such as acetone, xylene. Prepare only the amount you can use in 5 minutes at 78°F. (Higher temperatures reduce work time). Do not leave the mixed material in the bucket longer than 3 minutes. Incomplete mixing will cause an inconsistent finish.

NOTE: Do not mix this product in direct sunlight or when temperatures exceed 90°F. Set up the mixing station as near to the work area as possible. Use a high speed drill w/mixing paddle. Exposure to high temperatures will reduce the working time. If using a drill mixer, use a high speed (1,000 to 1,500 RPM) to ensure thorough mixing. DO NOT MIX UNTIL READY FOR IMMEDIATE USE.

WARNING! SLIP AND FALL PRECAUTIONS

OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slipresistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. GLACIER EPOXY SUPPLY recommends the use of angular slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. GLACIER EPOXY SUPPLY or its sales agents will not be responsible for injury incurred in a slip and fall accident.

Handling Precautions

Use only with adequate ventilation. Appropriate cartridge-type respirator must be used during application in confined areas. Avoid contact with skin. Some individuals may be allergic to epoxy resin. Protective gloves and clothing are recommended.

WARRANTY

GLACIER EPOXY SUPPLY products are warranted for one year after date of purchase. Please refer to the Limited Material warranty for additional clarification.