



DC380SL Water Based Self-Leveling Urethane Cement

SLURRY COAT

PRODUCT DESCRIPTION:

EPIC DC380SL is a self leveling urethane cement slurry that has outstanding wear performance and can withstand higher heat exposures than typical unmodified urethanes. The product has good thermal shock capabilities and is a good choice for hot wash down areas. The product withstands moderate thermal shock, impact, abrasion and chemical exposures. Exhibits low to no odor. Recommended for resurfacing areas where a durable shock resistant surface is needed such as commercial kitchens, restrooms and locker rooms, food prep areas, and food and beverage facilities. **Exhibits low to no odor.**

CHEMICAL RESISTANCE	
CHEMICAL EXPOSURE	PERFORMANCE
Acetic Acid 10%	PASSED
30% Nitric	PASSED
Sodium Hydroxide 50%	PASSED
Sulfuric Acid 30%	PASSED
Xylene	PASSED
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.	

CURE SCHEDULE (77 Degrees F)	
Pot Life (0.25 cu. Ft. mix)	15 minutes
Heavy Foot Traffic	24 hours
Light Foot Traffic	6-8 hours
Full Cure	7 days
Application Temperature: 45-85 degrees F with relative humidity below 85%.	

STANDARD COLORS:

Gray, tan and red. (Special colors available with minimum quantities.)

PACKAGING INFORMATION:

Each kit contains:

1. Urethane Part A: 1 Gallon Container
2. Urethane Part B: 1 Gallon Container
3. Pigment Pack: 1 lb. bag of Epic dry pigment
4. Aggregate : 29lb bag

BENEFITS:

Seamless hygienic finish with no grout lines
No odor, fast installation and fast cure
Thermal shock and chemical resistance

SOLIDS BY WEIGHT:

Approximately 97% solids (liquids mixed with aggregate)

VOLATILE ORGANIC CONTENT:

5 grams per liter

FILM THICKNESS:

Final film thickness varies, dependent on concrete conditions and system used. Typical finished installation thicknesses vary from 1/8" to 3/16" dependent on broadcast aggregate and topcoats.

COVERAGE PER KIT:

The standard kit (approximately 0.39 cu. Ft.) typically yields approx. 40 square feet per kit at 1/8" thickness.

FINISH CHARACTERISTICS:

Slightly textured rough finish when broadcasted

COMPRESSIVE STRENGTH:

8,400 psi @ ASTM C-579

TENSILE STRENGTH:

1,050 psi @ ASTM C-307

BOND STRENGTH:

100% concrete failure @ ASTM D-4541

FLEXURAL STRENGTH:

2,700 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 pourable slurry.

DOT CLASSIFICATIONS:

Not Regulated

HEAT RESISTANCE:

Can withstand up to 200F degrees

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Not Regulated

HEAT RESISTANCE:

Can withstand up to 200F degrees

MIXING AND APPLICATION INSTRUCTIONS:

SURFACE PREPARATION: The most suitable surface preparation would be a fine brush blast (shot blast) to remove all laitance and provide a suitable profile. All dirt, foreign contaminants, oil and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete moisture content is controlled to acceptable levels, 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 generally considered suitable for coatings. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding. After surface preparation and before application, repair all bug holes and grind down any projections. Repair all cracks or concrete Imperfections. Surface should have a minimum tensile strength of at least 300 psi @ ASTM D-4541. Surface profile should be CSP 3-5 per International Concrete Repair Institute guidelines.

PRODUCT MIXING: This product is packaged in pre-measured kits. Use the entire kit - do not modify. Pour the part A into a five gallon mixing vessel. If adding color, add one bag of the powder pigment to the part A and mix approximately 15 seconds using a 1/2" drill and jiffy type mixing paddle. Next, add the part B and again mix for about 15 seconds. Finally, gradually add all of the contents from the provided aggregate filler bag into the liquid mixture and blend thoroughly until all particles are thoroughly wetted out; this will usually take about two minutes. Use slow speed mixing equipment to avoid adding air into the mix. After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be applied on the prepared substrate. Remix occasionally to prevent settling of aggregate. Improper mixing may result in product failure. Make sure to apply the product immediately after it is completely mixed

PRIMING: No primer is necessary on a properly prepared substrate, however, if concrete outgassing occurs, discontinue application and apply a suitable primer.

PRODUCT APPLICATION: Have the floor as dry as possible without any puddles of water present. To prevent lifting and delaminations, keyways (minimum 5/16" wide x 5/16" deep) must be cut at all terminations, joints, columns, doorways and drains. Immediately after mixing, spread the mixed material onto the floor at the desired thickness, using a cam rake or other suitable equipment; approximately 1/8" for a 3/16: finished floor. Apply abutting edges within 5-10 minutes to ensure a clean edge. A "wet edge" installation is imperative for larger areas to avoid lines and ridges in the finished floor. When installing, evenly apply to the desired thickness while trying to keep the cam rake lines to a minimum. Backroll across the applied slurry with a spike roller to help settle aggregate and blend in cam rake lines. Further roll with a loop/texture roller perpendicular to cam rake lines over the entire floor surface to even and settle the slurry prior to broadcasting. Finally, broadcast to rejection with the desired broadcast media (aggregate or decorative flakes) onto the wet slurry. Do not broadcast onto the wet edges until settling and backrolling is complete. Continue to broadcast until no wet areas remain. After Curing (typically around 6-8 hours for light foot traffic), remove all excess broadcast media and scrape floor as desired. A topcoat can now be applied to lock in the aggregate. Surfaces not broadcasted could have an uneven texture, color streaks or color differences and an orange peel look. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. Do not apply to cracked or unsound concrete. Do not feather edge.

RECOAT OR TOPCOATING: Except for the aggregate broadcast, topcoats are optional dependent on desired results. In some areas, a suitable novolac or other types of coatings can be used, depending on specific requirements.

CLEANUP: For cleaning any application, equipment, water can be used. The urethane component container is best cleaned with a suitable solvent.

FLOOR CLEANING: Caution! 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.

RESTRICTIONS: Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

PRODUCT STORAGE: Store product in an area as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degrees F. Low temperatures may cause product crystallization. Do Not Freeze.

SHELF LIFE:

6 months for unopened and properly stored containers.

LIMITATIONS

- Color stability or gloss may be affected by high humidity, low temperature, chemical exposure or lighting such as sodium vapor lights. Product is not color or UV stable.
- Do not install on wet concrete.
- Floors should be sloped to drain to prevent standing water or chemicals and spills should be removed as soon as possible to prevent a slipping hazard.
- Proper mixing is important for product performance.
- High heat exposure may discolor the surface.
- Colors may vary from batch to batch. Therefore, use only products from the same batches for an entire job.
- Always apply a suitable test area to evaluate the product performance and suitability prior to undertaking the entire project. Samples are available upon request.
- Mixtures of chemicals and applications with exposures to chemicals at elevated temperatures should be thoroughly evaluated before applying.
- Substrate temperature must be 5°F above the dew point.
- All new concrete must be cured for at least 15 days prior to application.
- Moisture vapor transmission should be less than 12 pounds or less per 1,000 sq. ft. over a 24 hour period as per ASTM E1907.
- See reverse side for application instructions.
- Physical properties are typical values and not specifications.

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. **NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT.** We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may **CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.**

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