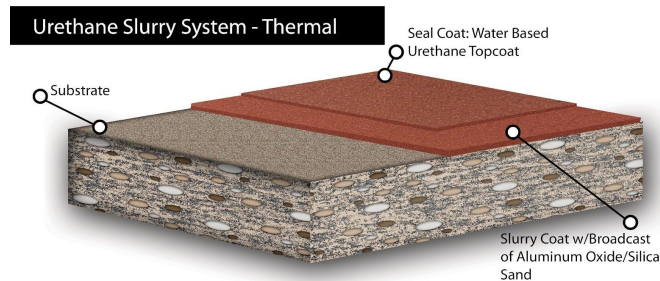




Urethane Slurry System - Thermal™

Urethane Slurry System is a self-leveling, low odor slurry that can be applied at 1/8" thickness and broadcast to yield a 3/16" system. It is used for environments requiring a durable floor that can withstand heavy and abusive service. Water Based Urethane Topcoat provides additional thermal shock capabilities.

The system described below is EPIC's standard system. However, EPIC has several other product options (components) which may be substituted in order to suit your individual performance needs. Consult your EPIC sales representative for details.



SYSTEM COMPONENTS (approx 3/16 th)			
Coat	Product	Mix Rate	Coverage
Slurry	DC380 Water Based Cement Urethane Slurry	7.25#(A) + 7.25#(B) + 29# Aggregate	37-46 sq. ft. per kit @ 1/8"
Broadcast Aggregate – Aluminum Oxide or Silica Sand			
Topcoat	DC390 Water Based Urethane Topcoat	7.25#(A) + 7.25#(B) + 29# Aggregate 1# dry pigment	160-170 sq. ft. per kit over 20/40 broadcast

BENEFITS

- Thermal shock resistant
- Good freeze/thaw stability
- Slurry cures down to 45 degrees F
- Impact resistant
- Chemical resistant

RECOMMENDED FOR

- Food and Chemical Processing
- Bakeries
- Wastewater Treatment
- Breweries/Bottling Plants
- Walk In Coolers

EPIC also has available several crack fillers, joint sealant and other support products. Please inquire with your sales representative for more information on these products.

***Refer to individual data sheets for preparation, mixing and application instructions as well as product limitations, limitations of liability, warranty information and common chemical resistance information.**

PHYSICAL PROPERTIES		
Property	Test Method	Result
Bond Strength	ASTM D-4541	100% concrete failure
Flexural Strength	ASTM C-580	2,700 psi
Compressive Strength	ASTM C-579	8,400 psi
Tensile Strength	ASTM C-307	1.050 psi
Impact Resistance	D-4226	160 inch lbs. direct
Heat Resistance	Can withstand up to 200F degrees	
Finish		Matte
Application Temperature		45° to 85° F

PRODUCT STORAGE: Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degree F. Keep from freezing. Low temperatures may cause product crystallization

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.

SLURRY 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 for about 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.

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

BROADCAST APPLICATION: After the product is applied, broadcast with sand to rejection on the wet surface. Do not broadcast onto the wet edges until settling and backrolling is complete. Continue to broadcast until no wet areas remain.

After curing remove all excess broadcast media and scrape floor as desired. Surfaces not broadcasted could have an uneven texture, color streaks or color differences and an orange peel look.

SEAL COAT 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 and add one bag of the powder pigment to the part A and mix for about 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 cured broadcasted slurry. 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.

SEAL COAT APPLICATION: Immediately after mixing, pour mixed material on the floor in ribbons. Using a flat squeegee, move the material uniformly across the surface. Roll and back-roll material using a 1/4" nap roller to a uniform appearance. Do not over work.

SEAL COAT 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.

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. 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.**