

ARM903SLX URETHANE SLURRY MORTAR

PRODUCT DESCRIPTION

ARM903SLX is a bio-based three or four component (dependent on color) urethane 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 is resistant to MVT and withstands moderate thermal shock, impact, abrasion and chemical exposures

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

SPECS

SOLIDS BY WEIGHT	Approximately 97% solids (liquids mixed with aggregate)
COMPRESSIVE STRENGTH	8,400 psi @ ASTM C-579
VOLATILE ORGANIC CONTENT	5 grams per liter
RECOMMENDED FILM THICKNESS	Typical finished installation thicknesses vary from 1/8" to 3/16" dependent on broadcast aggregate and topcoats.
PACKAGING INFORMATION	Urethane Cement: (7.25# part A in a gallon container, not full + 7.25# part B in a gallon container not full + 1 bags blended aggregate at 29# and 1# bag of dry pigment (weights approximate)
VISCOSITY	When mixed, it forms a pourable slurry
SHELF LIFE	6 months for unopened containers
FINISH CHARACTERISTICS	Slightly textured rough finish when broadcasted
IMPACT RESISTANCE	160 in. lbs @ ASTM D-4226
DOT CLASSIFICATIONS	Not regulated
TENSILE STRENGTH	1.050 psi @ ASTM C-307
BOND STRENGTH	100% concrete failure @ ASTM D-4541
FLEXURAL STRENGTH	2,700 psi @ ASTM C-580
MIX RATIO	Urethane Cement: (7.25# part A in a gallon container, not full + 7.25# part B in a gallon container not full + 1 bags blended aggregate at 29# and 1# bag of dry pigment (weights approximate)
ABRASION RESISTANCE	Urethane Cement: (7.25# part A in a gallon container, not full + 7.25# part B in a gallon container not full + 1 bags blended aggregate at 29# and 1# bag of dry pigment (weights approximate)
HARDNESS	Shore D = 80 typical
RESISTANT TO FUNGI GROWTH	Passes rating of 1 @ ASTM G-21
HEAT RESISTANCE	Can withstand up to 200F

COVERAGE

PER KIT	The standard kit (approximately 0.39 cu. Ft.) typically yields 37-46 square feet per kit at approximately 1/8"
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COLORS

Medium Gray and Tile Red

CURE SCHEDULE (77 Degrees F)

POT LIFE (.25 cu.ft mix)	15 minutes
TACK FREE (Dry to touch)	N/A
RECOAT OR TOPCOAT	12 hours
LIGHT FOOT TRAFFIC	12 hours
FULL CURE (heavy traffic)	24 hours
APPLICATION TEMPERATURE	45-85 degrees F with RH 85%

PRIMERS

None required

TOPCOAT

Optional however recommended to coat with ARM253X Novolac coating

BENEFITS

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

CHEMICAL RESISTANCE

10% Acetic Acid	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.

FEATURES



Heavy Duty Slurry Coating



Highly Chemical Resistant



Withstands Forklift Traffic



Heat Resistant

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 product 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 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. See reverse side for limitations of our liability and warranty.



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URETHANE SLURRY MORTAR

PRODUCT STORAGE

Store product at normal room temperature. Continuous storage should be between 60 and 90 degree F

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 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

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.

RECOATING 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

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 MERCHANTABILITY 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.