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ARMUFSK

ARMOR ULTRAFAST LT

PRODUCT DESCRIPTION

Armor UltraFast LT utilizes the latest development in Polyaspartic coating technology and is the most durable coating available. It dries quickly and provides unparalleled rapid return to service. It is extremely resistant to heat (temps up to 350°F), UV rays, and a variety of harsh chemicals, including salt, oil, and gasoline. This product is also flexible and allows for natural concrete movement without cracking or peeling, making this system ideal for either indoor or outdoor applications.

PRODUCT FEATURES AND BENEFITS

- VOC < 50 g/l, SCAQMD Approved
- Versatile - Coatings, Broadcast Floors, Chip Floors, Slurry/Broadcast
- Rapid Return to Service in 24 hours
- Outstanding Color retention in Gloss or Satin Finish
- Highly Chemical Resistant (for more information, see chart on page 2)
- Convenient 1:1 mixing ratio
- Designed for interior and exterior applications

PERFORMANCE AND CHARACTERISTICS

COMPRESSIVE STRENGTH	METHOD: ASTM C695 RESULT: @ 24 hours 6,700 psi @ 7 days 7,950 psi
TENSILE STRENGTH	METHOD: ASTM D638 RESULT: 4500-5200 psi
BOND STRENGTH TO CONCRETE	METHOD: ASTM D4541 RESULT: 725 psi
TABER ABRASION	METHOD: ASTM 4060, CS 17 RESULT: 3 mg.
FLAMMABILITY	METHOD: ASTM D635 RESULT: Self-extinguishing
KONIG HARDNESS	METHOD: ASTM D4366 RESULT: 137
ELONGATION	METHOD: ASTM D638 RESULT: 25-35%
WATER ABSORPTION	METHOD: ASTM D570 RESULT: (24 hours) <0.5%
MONOLITHIC SURFACING	METHOD: ASTM C722 RESULT: Pass
IMPACT RESISTANCE	METHOD: ASTM D2794 RESULT: Pass

This product complies with USDA FSIS regulatory sanitation performance standards for food establishment facilities. This coating is impervious to moisture and easily cleaned and sanitized. Meets USDA requirements for incidental food contact

WARNING

CAUSES NOSE, THROAT, EYE AND SKIN IRRITATION. CAUSES EYE AND SKIN BURNS. HARMFUL IF SWALLOWED. MAY CAUSE ASTHMA, SKIN SENSITIZATION OR OTHER ALLERGIC RESPONSES. FOR INDUSTRIAL OR COMMERCIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. SEE THE PRODUCT SAFETY DATA SHEET (SDS) AND LABEL WARNINGS FOR ADDITIONAL SAFETY INFORMATION.

CHEMICAL RESISTANCE (77°F/25°C)

Acetic Acid 100%	C	Muriatic Acid 10%	R
Acetone	C	NaCl/H2O 10%	R
Ammonium Hydroxide 50%	RC	Nitric Acid 20%	NR
Benzene	C	Phosphoric Acid 10%	R
Brine saturated H2O	R	Phosphoric Acid 50%	NR
Chlorinated H2O	R	Potassium Hydroxide 10%	R
Clorox(10%) H2O	R	Potassium Hydroxide 20%	R, Dis
Diesel fuel	RC	Propylene Carbonate	RC
Gasoline	RC	Skydrol	C
Gasoline/5% MTBE	RC	Sodium Hydroxide 25%	R
Gasoline/5% Methanol	RC	Sodium Hydroxide 50%	R, Dis
Hydrochloric Acid 20%	R	Sodium Hypchlorite 10%	R
Hydrofluoric Acid 10%	NR	Sodium Bicarbonate	R
Hydraulic fluid (oil)	RC	Stearic Acid	R
Isopropyl Alcohol	R	Sugar/H2O	R
Lactic Acid	RC	Sulfuric Acid 10%	R
MEK	RC	Sulfuric Acid >50%	RC
Methanol	R	Toluene	R
Methylene Chloride	C	1, 1,1-Trichlorethane	C
Mineral Spirits	RC	Trisodium Phosphate	R
Motor Oil	R	Vinegar/H2O 5%	R
MTBE	C	Xylene	RC

Chemical Resistance: Chart Key R=recommended/little or no visible damage RC=recommended conditional/some effect, swelling or discoloration C=Conditional/Cracking-wash within one hour of spillage to avoid affects NR=Not recommended Dis=discolorative

PHYSICAL PROPERTIES

Resin Type	Polyaspartic Polyurea
Pigment Type	Varies depending on color
Solvents	Benzyl Alcohol
Weight-Per Gallon	9.59 lbs
Weight-Per Liter	1.1 kg
Solids By Weight	70%
Solids By Volume	70%
Volatile Organic Compounds	<50 g/l
Recommended Dry Film Thickness(DFT) Per Coat	4-8 mils
Practical Coverage (assume 15% material loss)	120-240 sq.ft./gal.
--	Rates will vary based on application method
Mixing Ratio	1:1
Pot Life @ 70-80°F (21-27°C) and 50% Relative Humidity	35-40 minutes
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Re-Coat Window (Min./Max)	2 hours/12 hours
Dry Times at 70-80°F (21-27°C) and 50%	Foot Traffic 2-4 hours
Relative Humidity	Vehicle Traffic 24 hours
Shelf Life	Full Cure** 7 days
Flash Point	5 Years
	>200°F (93°C)



Chemical Resistant



Rapid Cure



Easy Mix Ratio



Extended Pot Life

INTERIOR/EXTERIOR

Fast Curing Polyaspartic Coating



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ARMOR ULTRAFast LT

PRODUCT STORAGE

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

SURFACE PREPARATION

NEW CONCRETE

- New concrete should be allowed to cure for a minimum of 28 days. The concrete must be structurally sound, dry, and free of grease, oils, dust, curing compounds and other coatings or contaminants. Surface laitance must be removed. Rising moisture vapor emission rate must not exceed 3 lb. per 1000 sq. ft. over a 24 hour period as measured by calcium chloride test method ASTM F-1869. The preferred method of surface preparation is to mechanically abrade the floor by diamond grinding to achieve a final 80-120 grit finish, reference profile CSP-2 according to ICRI. If patching is required, use ArmorPoxy repair and patch product.

PREVIOUSLY COATED

- Previously coated concrete must be in good sound condition with the existing coating tightly adhering to the concrete. In addition to the aforementioned cleaning the existing coating must be abraded to dull the finish and produce a slight surface profile. Remove all sanding dust by vacuum. Armor UltraFast LT compatible with most coatings, but a test patch is suggested. Concrete must be visibly dry at time of application.

APPLICATION

MIXING EQUIPMENT

- Low speed drill and spiral mixing wand. Important: Hand mixing will produce inconsistent results and is not an approved method.

MIXING

- Before starting, ensure that the material, concrete surface, and the ambient air are all at 30-90°F. Mixing ratio is 1 part A to 1 part B. Pre-mix both A and B sides prior to combining. Add part "A" to the mixing container. Add part "B" to the mixing container and mix for 60-90 seconds. DO NOT THIN

TINTING

- Add 16 ounces (1/2 can) of color pack to activated 2 gallon kit (Parts A and B) and stir for 3 minutes. Carefully monitor amount of colorant added to each gallon to ensure color is uniform. On large projects, make sure all colorant is from the same lot # or intermix all colorants. Tint is to be added in the field at the time of application.

APPLICATION EQUIPMENT

- 24" flat blade squeegee and 18"-3/8" lint free roller

APPLICATION OF COATING

- Mix only what you can squeegee and back roll within 35-40 minutes (approximately 1 gallon of mixed material per crew of two applicators wearing spiked shoes). Do not aerate the mix. Before starting, ensure that the material, concrete surface, and the ambient air are all at 30-90°F. Do not apply in direct sunlight or when temperature is rising. Colder environmental conditions can slow the cure of UltraFast LT For application outside of this temperature range please contact ArmorPoxy Technical Service. Wearing spiked shoes, immediately pour mixed UltraFast LT on the floor in ribbons. Spread using a squeegee and then back roll using a short nap lint-free roller.

CLEANUP

- Clean Tools and application equipment immediately after use with active solvent like xylene (in SCAQMD use acetone only). Clean spills or drips while still wet with solvent. Dried product will require mechanical abrasion for removal.

WARRANTY

LIMITED WARRANTY NOTICE

The technical data and suggestions for use contained herein are correct to the best of our knowledge, and offered in good faith. The statements of this literature do not constitute a warranty, express, or implied, as to the performance of these products. As conditions and use of our materials are beyond our control, we can guarantee these products only to conform to our standards of quality, and our liability, if any, will be limited to replacement of defective materials. All technical information is subject to change without notice.