

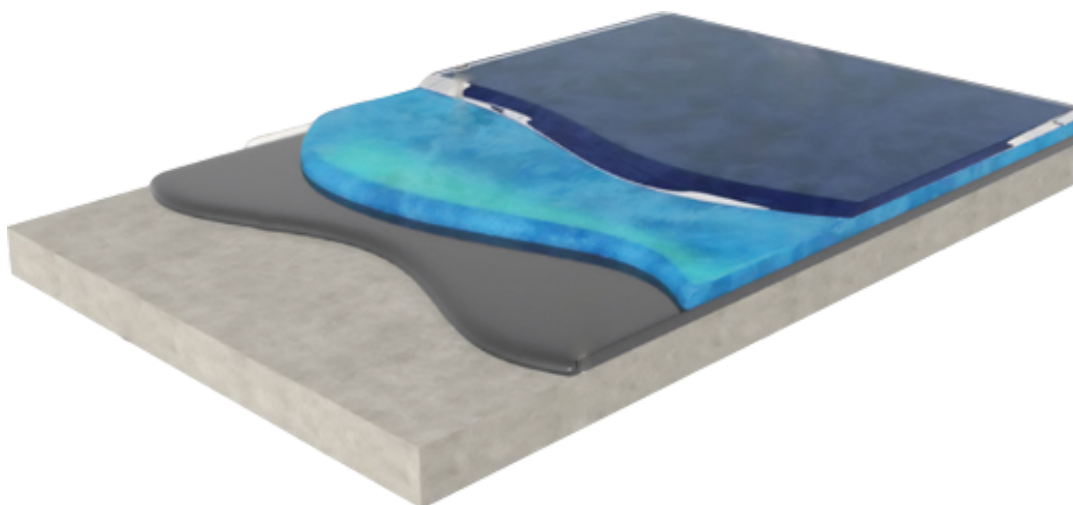
TDS

ArmorTalic Metallic Epoxy Floor System



TDS Information

- **ArmorPoxy II 2-Part Epoxy Primer**
- **100% Solids Epoxy Part A & Part B**
- **ArmorUltra 1-Part Military Topcoat**



www.armorpoxy.com

**1260 North Ave
Plainfield, NJ 07062**

11.23-V1

ARM015X

ARMORULTRA PRIMER

PRODUCT DESCRIPTION

ARM015X is a two component water based epoxy coating that exhibits excellent characteristics that rival solvent based products. ARM015X has superb chemical resistance, abrasion resistance, and substrate penetration.

RECOMMENDED FOR: priming or coating concrete, wood or masonry. This product can be used as a standalone coating, as a primer for additional epoxy layers, and to assist with moisture blocking for epoxy systems. Can withstand exposure to many common solvents and chemicals.

SPECS

SOLIDS BY WEIGHT	Mixed = 53% (colors); 45% (clear); (+, - 2%)
SOLIDS BY VOLUME	Mixed = 41% (colors); 36% (clear); (+, - 2%)
DOT CLASSIFICATIONS	Not regulated
RECOMMENDED FILM THICKNESS	5-7 mils per coat wet thickness (yields 2-3 mils dry)
PACKAGING INFORMATION	2 gallon and 5 gallon kits (volume approx.)
MIX RATIO	4 Parts A to 1 Part B
SHELF LIFE	1 year in unopened containers
FINISH CHARACTERISTICS	Satin gloss (40-80 at 60 degrees @ glossmeter)
IMPACT RESISTANCE	Gardner Impact, direct = 50 in.lb. (passed)
FLEXIBILITY	No cracks on a 1/8" mandrel
ADHESION	425 psi @ elcometer (concrete failure, no delamination)
VISCOSITY	Mixed = 900-1200 cps (colors); 400-900 cps (clear) (typical)
VOLATILE ORGANIC CONTENT	Colors = 1.01 pounds per gallon (mixed) (regulatory VOC = 175g/l) Clear = 1.0 pounds per gallon (mixed) (regulatory VOC = 230g/l)
ABRASION RESISTANCE	Taber adrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 54 mg loss

CHEMICAL RESISTANCE

Acetic Acid 5%	B
Xylene	B
MEK	A
Gasoline	B
10% Sodium Hydroxide	C
50% Sodium Hydroxide	B
10% Sulfuric	B
10% Hydrochloric Acid	B
20% Nitric Acid	A
Ethylene Glycol	C

Rating Key: Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

COVERAGE

PER GALLON	229 to 320 square feet @ 5-7 mils wet thickness
------------	---

COLORS

Off white, light gray, medium gray, tile red, beige, and amber clear. NOTE: The clear (gardner 11) is not water clear and is not suitable for topcoating over previously color coated floors. The clear is suitable as a primer or concrete sealer only.

CURE SCHEDULE

POT LIFE (1 gal volume)	1-1.5 hours
TACK FREE (Dry to touch)	5-8 hours
RECOAT OR TOPCOAT	7-10 hours
LIGHT FOOT TRAFFIC	16-24 hours
FULL CURE (heavy traffic)	2-7 days
APPLICATION TEMPERATURE	55-90 degrees F with relative humidity below 75%

PRIMERS

None required

TOPCOAT

Optional - Many products are suitable as topcoats including multiple coats of this product. For added chemical resistance, color stability or UV stability, use with build coat ARM707X and/or topcoat such as ARM321X

FEATURES



LIMITATIONS

Color or gloss may be affected by humidity, low temperatures, chemical exposure or sodium vapor lighting. Product will yellow in the presence of UV light. For best results use a 1/4" or 3/8" nap roller. Slab on grade requires moisture barrier. Substrate temperature must be 5°F above dew point. All new concrete must be cured for at least 30 days. Product color will vary from batch to batch. Use only product from the same batch for an entire job. Improper mixing or too thick of an application may result in product failure. Light or bright colors (white, safety colors etc.) may require multiple coats or a topcoat to achieve a satisfactory hide, depending on the substrate. Physical properties listed on this technical data sheet are typical values and not specifications. See reverse side for limitations of our liability and warranty. See reverse side for application instructions.

ARM707X-CM

100% SOLIDS EPOXY COATING

PRODUCT DESCRIPTION

ARM707X-CM is a 100% solids epoxy coating that is solvent-less. It is a two component epoxy coating system. It exhibits very good appearance and chemical and physical properties.

RECOMMENDED FOR: Recommended for a high build topcoat or basecoat on concrete or masonry. Product is suitable in many chemical exposure environments.

CHEMICAL AND PHYSICAL ANALYSIS

SHELF LIFE	12 MONTHS
MIX RATIO	2 PARTS A TO 1 PART B
POT LIFE	40-50 MINUTES @ 77°F
SOLIDS BY WEIGHT	100%
SOLIDS BY VOLUME	100%
PACKAGING	3 GAL KITS. 2 GAL A, 1 GAL B
COLORS	MEDIUM GRAY, LIGHT GRAY
RECOMMENDED THICKNESS	6-12 MILS
COVERAGE	200 SF PER GALLON @ 6 MILS THICK 100 SF PER GALLON @ 12 MILS THICK
-	-
CURE SCHEDULE	-
FOOT TRAFFIC	16 TO 30 HOURS
LIGHT TRAFFIC	2-5 DAYS
FULL CURE	5-10 DAYS
BOARD RESISTANCE (PSI) ASTM D4541	> 300 (SUBSTRATE RUPTURES)
PERMEABILITY (%), ASTM D570	0.3%
HARDNESS (SHORE D), ASTM D2240	85-90
ABRASIVE RESISTANCE, ASTM D4060 (CS17/100 CYCLES/1000G)	0.10G
VISCOSITY @ 77°F	1200-1400
TRACTION RESISTANCE (PSI), ASTM D638	6500
COMPRESSIVE STRENGTH (PSI MPA), ASTM D6595	14000
ELONGATION % ASTM D638	6.7
RECOAT WINDOW	-
@ 50 °F	30 HOURS - 72 HOURS
@ 68 °F	24 HOURS - 48 HOURS
@ 90 °F	16 HOURS - 24 HOURS

CURE SCHEDULE TIMES ARE
APPROXIMATE AND WILL BE
AFFECTED BY TEMPERATURE
CONDITIONS AND RELATIVE
HUMIDITY

ADVANTAGES

Dense surface resistant to bacteria and moisture and easy to clean // May apply several layers on itself with excellent adhesion // Low odor product allowing for interior application without harmful odors.

COMPOSITION

100% solids epoxy coating with no solvents and a very low VOC content (VOC = 88g/liters).

PACKAGING

Sold in 3 Gal Kits consisting of 2 Gal of Pre-Tinted part A and 1 Gal of Part B

COLOR

Available in Medium and Light Gray. For special orders please consult your sales rep



**Super
Durable**



**100% Solids
Epoxy**



**Roll On
Application**



**Chemical
Resistance**



**Safe To Apply
Indoors**

RESTRICTIONS

Minimum/Maximum temperature of substrate: 50°F/86°F

Maximum relative humidity during application and curing: 85 %

Substrate temperature must be (5.5 ° F) above dew point measured.

Humidity content of substrate must be <4% when coating is applied.

Do not apply on porous surfaces where a transfer of humidity may occur during application.

Avoid exterior use on substrates at ground level.

Protect from humidity, condensation and contact with water during the 24-hour initial curing period

Surface may discolor in areas exposed to regular ultraviolet light

ARM356X
**ARMORULTRA HIGH PERFORMANCE MILITARY
GRADE 1 PART TOPCOAT**
PRODUCT DESCRIPTION

ARM356X is a one component moisture cured polyurethane (HDI based) floor coating/sealer that exhibits superior characteristics for abrasion resistance and chemical resistance. This product has good UV stability.

RECOMMENDED FOR: Recommended for showrooms, garage floors, warehouses, laboratories, cafeterias, and most indoor chemical exposure areas with regard to concrete or cement.

SPECS

SOLIDS BY WEIGHT	65% (+/- 3%)
SOLIDS BY VOLUME	60% (+/- 3%)
VOLATILE ORGANIC CONTENT	Less than 329 g/l
RECOMMENDED FILM THICKNESS	3-5 mils per coat wet thickness
PACKAGING INFORMATION	1 gallon, 5 gallon and 55 gallon containers
MIX RATIO	One component product
SHELF LIFE	3 months in unopened containers
FINISH CHARACTERISTICS	High gloss >70 at 60 degrees
IMPACT RESISTANCE	Gardner Impact, direct & reverse= 100 in. lb. (passed)
FLEXIBILITY	No cracks on a 1/8" mandrel
VISCOSITY	Less than 200 cps (typical)
HARDNESS	2H
DOT CLASSIFICATION	"FLAMMABLE LIQUID N.O.S, 3, UN1993, PGIII"
ADHESION	360 psi @ elcometer (concrete failure, no delamination) (applied over ARM154X clear primer)
ABRASION RESISTANCE	Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles= 4.4 mg loss

COVERAGE

PER GALLON	320 to 500 square feet @ 3-5 mils wet thickness
------------	---

COLORS

Clear (gardner 1)

CURE SCHEDULE

POT LIFE (1 gal volume)	3-5 hours
TACK FREE (Dry to touch)	4-7 hours
RECOAT OR TOPCOAT	9-13 hours
LIGHT FOOT TRAFFIC	13-24 hours
FULL CURE (heavy traffic)	3-5 days
APPLICATION TEMPERATURE	50-90 degrees F with relative humidity between 60% and 90%

PRIMERS

Recommended ARM154X CLEAR

TOPCOAT

None recommended

CHEMICAL RESISTANCE

Acetic Acid 5%	C
Xylene	E
MEK	B
Methyl Alcohol	B
Gasoline	D
10% Sodium Hydroxide	E
50% Sodium Hydroxide	D
10% Sulfuric	D
10% Hydrochloric Acid	D
20% Nitric Acid	C
Ethylene Glycol	D

Rating Key: Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

FEATURES**LIMITATIONS**

Clarity, gloss or color may be affected by high humidity, low temperatures, chemical exposure, tire contact or exposure to lighting such as sodium vapor lights. For best results use a high quality 3/8" nap roller. Slab on grade requires moisture barrier. Substrate temperature must be 5°F above dew point. All new concrete must be cured for at least 30 days. Use a suitable primer if recoating after 24 hours, then the surface must be deglossed before the application. Surface irregularities are possible over smooth basecoats and re-coats. Contact your sales associate for recommendations. The concrete and joints must be thoroughly dry prior to application. Applying the product thicker than recommended may result in product failure. Applications in direct sunlight, high humidity or high temperatures may cause surface curing before suitable air release has occurred. Physical properties are typical values and not specifications. See reverse side for application instructions. See reverse side for limitations of our liability and warranty.