

# TDS

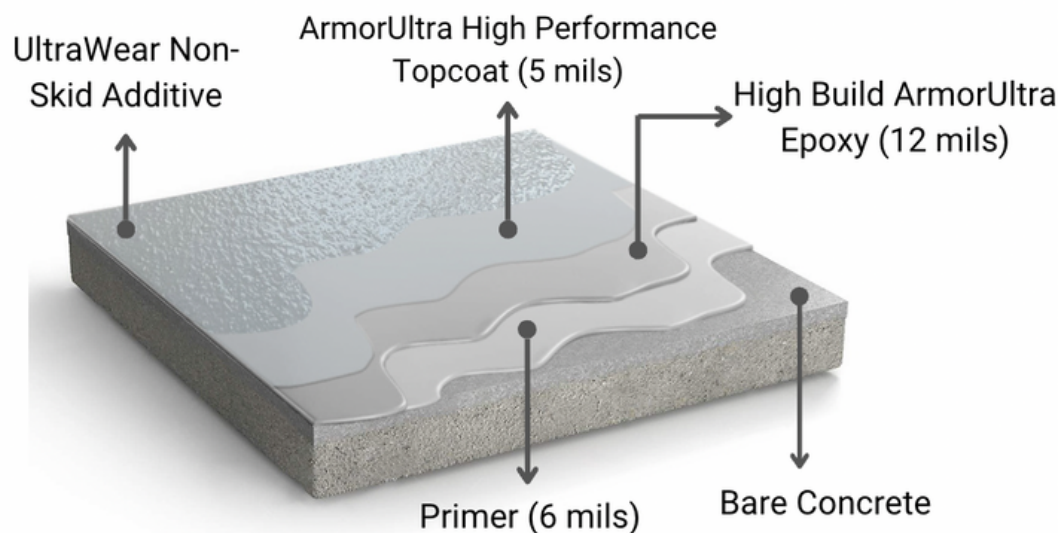
## ArmorUltra STD VOC

### 3-Layer Epoxy System



## TDS Information

- **ArmorUltra 2-Part Epoxy Primer**
- **ArmorUltra 100% Solids Epoxy**
- **ArmorUltra 2-Part Military Grade Topcoat**



[www.armorpoxy.com](http://www.armorpoxy.com)

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Plainfield, NJ 07062

9.23-V1

# ARM144X

## ARMORPOXY II - STD VOC PRIMER

### PRODUCT DESCRIPTION

ARM144X is a two component solvent based epoxy coating that exhibits excellent characteristics for abrasion resistance, chemical resistance, and substrate penetration. This product is suitable as a primer for high build coatings and urethane or as a stand-alone coating.

**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 = 65% (+, - 2%)
SOLIDS BY VOLUME	Mixed = 52% (+, - 2%)
RECOMMENDED FILM THICKNESS	5-6 mils per coat wet thickness (yields 3 mils dry)
PACKAGING INFORMATION	2 gallon and 10 gallon kits
MIX RATIO	1 part A to 1 part B by volume
SHELF LIFE	1 year in unopened containers
FINISH CHARACTERISTICS	Satin gloss (30-60 at 60 degrees @ glossmeter)
IMPACT RESISTANCE	Gardner Impact, direct= 50 in. lb. (passed)
FLEXIBILITY	No cracks on a 1/8" mandrel
ADHESION	375 psi @ elcometer (Concrete failure, no delamination)
VISCOSITY	Mixed = 300-500 cps (typical)
VOLATILE ORGANIC CONTENT	Part A= 3.43 pounds per gallon/Part B= 3.75 pounds per gallon VOC mixed < 427 g/l
ABRASION RESISTANCE	Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 30.2 mg loss
DOT CLASSIFICATIONS	Part A "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII" Part B "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII"

### COVERAGE

PER GALLON	267 to 320 square feet @ 5-6 mils wet thickness
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### COLORS

White, off white, light gray, medium gray, tile red, and beige

### CURE SCHEDULE

POT LIFE (2 gal volume)	3-5 hours
TACK FREE (Dry to touch)	2-4 hours
RECOAT OR TOPCOAT	4-6 hours
LIGHT FOOT TRAFFIC	16-24 hours
FULL CURE (heavy traffic)	2-7 days
APPLICATION TEMPERATURE	40-90°F

### 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, topcoat with a suitable aliphatic urethane

### CHEMICAL RESISTANCE

Acetic Acid 5%	A
Xylene	B
MEK	A
Gasoline	B
10% Sodium Hydroxide	E
50% Sodium Hydroxide	D
10% Sulfuric	C
10% Hydrochloric Acid	C
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.

### FEATURES



Extended  
Pot Life



Multiple  
Colors



Super  
Durable



Easy to  
Install



Roll On  
Application

### LIMITATIONS

Colors or gloss may be affected by high humidity, low temperatures, chemical exposure, UV exposure or lighting such as sodium vapor lights. Product is not UV color stable For best results use a 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 Physical properties are typical and not specifications Light or bright colors (white, safety yellow, etc.) may require multiple coats or a topcoat to achieve a satisfactory hide, depending on the substrate See reverse side for application instructions. See reverse side for limitations of our liability and warranty.

# ARM707X

## ARMORULTRA HIGH BUILD 100% SOLIDS EPOXY

### PRODUCT DESCRIPTION

ARM707X is a two component 100% colored solids epoxy coating designed for applications where a high build colorfast impact resistant floor is needed.

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

### SPECS

SOLIDS BY WEIGHT	100%
SOLIDS BY VOLUME	100%
VOLATILE ORGANIC CONTENT	Less than 2 g/l
RECOMMENDED FILM THICKNESS	12-30 mils
PACKAGING INFORMATION	3 gallon kits, 15 gallon kits
MIX RATIO	2 Parts A to 1 Part B
SHELF LIFE	1 year in unopened containers
FINISH CHARACTERISTICS	Gloss (70-95 at 60 degrees @ glossmeter)
COMPRESSIVE STRENGTH	9,100 psi @ ASTM D695 - 1/2 "X 1/2" bars
FLEXURAL STRENGTH	5,400 psi @ ASTM D790
ADHESION	450 psi @ elcometer (Concrete failure, no delamination)
VISCOSITY	Mixed = 1300-2300 cps (typical, most colors)
HARDNESS	Shore D = 80
TENSILE STRENGTH	4,800 psi @ ASTM D638
ULTIMATE ELONGATION	3.1%
GARDNER VARIABLE IMPACTOR	50 inch pounds direct - passed
DOT CLASSIFICATIONS	Part A not regulated Part B CORROSIVE LIQUID N.O.S., 8, UNI1760, PGIII
ABRASION RESISTANCE	Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 32 mg loss

### COVERAGE

PER GALLON	100-200 SF @ 12-30 mils
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### COLORS

White, off white, light gray, medium gray, tile red, and beige

### CURE SCHEDULE

POT LIFE (1.5 gal volume)	30-50 minutes
TACK FREE (Dry to touch)	5-8 hours
RECOAT OR TOPCOAT	8-12 hours
LIGHT FOOT TRAFFIC	12-14 hours
FULL CURE (heavy traffic)	2-7 days
APPLICATION TEMPERATURE	60-90 degrees F with relative humidity below 85%

### PRIMERS

Recommended ARM015X, ARM144X or other suitable primer coats

### TOPCOAT

Optional. For added resistance use ARM321X

### CHEMICAL RESISTANCE

Xylene	C
Trichloroethylene	B
Methanol	A
Ethyl Alcohol	B
Skydrol	B
10% Sodium Hydroxide	E
50% Sodium Hydroxide	D
10% Sulfuric Acid	C
70% Sulfuric Acid	A
10% HC1 (aq)	C
5% Acetic Acid	B

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



**Chemical Resistance**



**Multiple Colors**



**Super Durable**



**0% VOCs**



**Roll On Application**

### LIMITATIONS

Color stability or gloss may be affected by environmental conditions such as high humidity, low temperatures, chemical exposure or exposure to certain types of lighting such as sodium vapor lights. Colors may vary from batch to batch. Therefore, use only product from the same batch for an entire job. This product is not UV color stable and may discolor when exposed to UV lighting. Otherwise, the color stability of this product is good. Therefore, a topcoat is optional and dependent on the environment. Light or bright colors may require a suitable primer or topcoat to achieve a satisfactory hide. Substrate temperature must be 5°F above dew point. All new concrete must be cured for at least 30 days prior to application. Apply a suitable primer before using this product as a coating. See reverse side for application instructions. Physical properties are typical values and not specifications. See reverse side for limitations of our liability and warranty.

# ARM321X

## ARMORULTRA MILITARY GRADE TOPCOAT

### PRODUCT DESCRIPTION

ARM321X is a two component polyester/aliphatic polyurethane floor sealer that exhibits excellent characteristics for abrasion resistance, chemical resistance, flexibility, weathering and UV stability.

**RECOMMENDED FOR:** Recommended for auto service centers, warehouses, computer rooms, laboratories, aircraft hangers, cafeterias, exterior tanks, indoor or outdoor service and chemical exposure areas.

### SPECS

SOLIDS BY WEIGHT	Mixed= 60% (colors); 56% (clear) (+,-2%)
SOLIDS BY VOLUME	Mixed= 53% (colors); 53% (clear) (+,-2%)
VOLATILE ORGANIC CONTENT	Less than 448 g/l
RECOMMENDED FILM THICKNESS	3-5 mils per coat wet thickness (yields 2-3 mils dry)
PACKAGING INFORMATION	3 gallon and 15 gallon kits (volumes approximate)
MIX RATIO	2 Parts A to 1 Part B by volume
SHELF LIFE	1 year
FINISH CHARACTERISTICS	High gloss (>80 at 60 degrees @ glossmeter)
IMPACT RESISTANCE	Gardner Impact, direct & reverse = 160 in. lb. (passed)
FLEXIBILITY	No cracks on a 1/8" mandrel
ADHESION	360 psi @ elcometer (concrete failure, no delamination)
VISCOSITY	Mixed = 200-400 cps (typical, most colors)
HARDNESS	Shore D = 72
DOT CLASSIFICATIONS	Part A "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII" Part B "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII"
ABRASION RESISTANCE	Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 20.0 mg loss

### COVERAGE

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

White, off white, light gray, medium gray, tile red, beige, and clear

### CURE SCHEDULE

POT LIFE (1.5 gal volume)	2-5 hours
TACK FREE (Dry to touch)	2-4 hours
RECOAT OR TOPCOAT	4-8 hours
LIGHT FOOT TRAFFIC	14-24 hours
FULL CURE (heavy traffic)	3-5 days
APPLICATION TEMPERATURE	45-90 degrees F with relative humidity below 90%

### PRIMERS

Recommend ARMX143 OR 144, ARMX154 or ARMX015

### 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



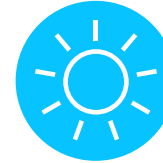
**Chemical Resistance**



**Multiple Colors**



**Super Durable**



**UV Stable**



**Roll On Application**

### LIMITATIONS

Colors or gloss may be affected by high humidity, low temperatures, chemical exposure, 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. Physical properties are typical values and not specifications. Light or bright colors (white, safety yellow, etc.) may require multiple coats or a suitable color coordinated primer to achieve a satisfactory hide. Tire contact may cause staining and discoloration. Colors may vary from batch to batch, therefore, use only product from the same batch for an entire job. See reverse side for application instructions. See reverse side for limitations of our liability and warranty.