

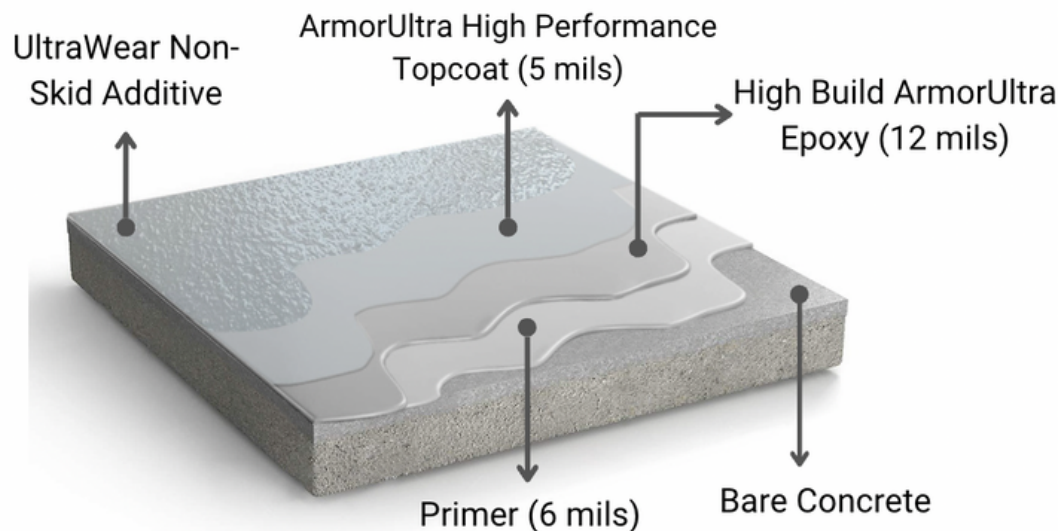
TDS

ArmorUltra Low VOC 3-Layer Epoxy System



TDS Information

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



www.armorpoxy.com

1260 North Ave
Plainfield, NJ 07062

9.23-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 Pat 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

COVERAGE

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

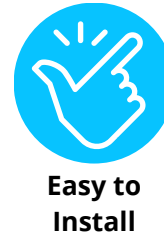
Optional - Many products are suitable as topcoats including multiple coats of this product. For added chemical resistance, color stability or UV stability, use with build coat ARM707X and/or topcoat such as ARM321X

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.

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

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.

ARM322X

ARMORULTRA MILITARY GRADE TOPCOAT LOW VOC

PRODUCT DESCRIPTION

ARM322X is a two component polyester/aliphatic polyurethane coating that exhibits excellent characteristics for abrasion resistance, chemical resistance, flexibility, weathering, and UV stability. This product meets the VOC requirements for the newly enacted VOC laws of New York, Pennsylvania, New Jersey, and other states as an industrial maintenance coating **RECOMMENDED FOR:** auto service centers, warehouses, computer rooms, laboratories, aircraft hangers, cafeterias, exterior tanks, indoor or outdoor service and chemical exposures areas.

SPECS

SOLIDS BY WEIGHT	Mixed= 73% (colors); 64% (clear) (+/- 2%)
SOLIDS BY VOLUME	Mixed= 70% (colors); 60% (clear) (+/- 2%)
VOLATILE ORGANIC CONTENT	VOC content is less than 335 g/l (mixed)
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 in unopened containers
FINISH CHARACTERISTICS	high-gloss (>70 at 60 degrees @ glossmeter)
IMPACT RESISTANCE	Gardner Impact, direct & reverse=160 in lb (passed)
FLEXIBILITY	No cracks on a 1/8" mandrel
ADHESION	350 psi @ elcometer (concrete failure, no delamination)
VISCOSITY	Mixed= 200-600 cps (typical)
HARDNESS	Shore D= 62
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= 22.0 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)	2-4 hours
TACK FREE (Dry to touch)	3-5 hours
RECOAT OR TOPCOAT	5-9 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 ARM144X, ARM154VOC or ARM015X

TOPCOAT

None recommended

CHEMICAL RESISTANCE

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



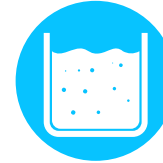
Chemical Resistance



Multiple Colors



Super Durable



Low VOC



Roll On Application

LIMITATIONS

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