# TDS
# ArmorPoxy Epoxy Floor Kits

## TDS Information

- Epoxy Primer STD & Low VOC
- 100% Solids Epoxy Part A & Part B
- Ultraglaze Clear Topcoat
- 2-Part Military Grade Topcoat
- Polyaspartic Topcoat

www.armorpoxy.com
860 Springfield Rd
Union, NJ 07083

5.26-V2

TECHNICAL DATA SHEET

# ARM144X
# ARMORPOXY II - STD VOC PRIMER

ArmorPoxy Inc.
860 Springfield Rd
Union, NJ 07083
armorpoxy.com
E: info@armorpoxy.com
P: 888-755-7361

## 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 |

## COLORS

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

## CURE SCHEDULE

| | |
|---|---|
| POT LIFE (2 gal volume) | 45 minutes |
| 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.**

**PRIMER** | **High Performance Epoxy**

INSTRUCTIONS

# ARM144X
# ARMORPOXY II

ArmorPoxy Inc.
860 Springfield Rd
Union, NJ 07083
armorpoxy.com
E: info@armorpoxy.com
P: 888-755-7361

## PRODUCT STORAGE

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

## SURFACE PREPARATION

Surface preparation will vary according to the type of complete system to be applied. For a one or two coat thin build system (3-10 mils dry) we recommend either mechanical scarification or acid etching until a suitable profile is achieved. For a complete system build higher than 10 mils dry, we recommend a fine brush blast (shot blast). All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4' X 4' 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 dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.

## PRODUCT MIXING

This product has a one to one mix ratio by volume- merely mix equal volumes such as 1 gallon of part A to 1 gallon of part B. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. If temperatures are below 55°F, let the material induct for ten minutes to help reduce the possibility of developing an epoxy blush.

## PRODUCT APPLICATION

The mixed material can be applied by brush or roller. Maintain temperatures within the recommended ranges during the application and curing process. When using product without a topcoat, it is best to use the same batch of material for an entire job to prevent color or gloss differences.

## RECOATING OR TOPCOATING

If you opt to recoat or topcoat this product, you must first be sure that all of the solvents have evaporated from the coating during the curing process. The information on the front side are reliable guidelines to follow. However, it is best to test the coating before recoating or topcoating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat or topcoat can be started. Always remember that colder temperatures will require more cure time for the product before recoating or topcoating can commence. Before recoating or topcoating, check the coating to insure no epoxy blushes were developed (a whitish, greasy film or deglossing). If a blush is present, it must be removed prior to topcoating or recoating. A standard type detergent cleaner can be used to remove any blush. Many epoxy overlays and coatings as well as urethanes are compatible for use as a topcoat for this product as well as multiple coats of this product

## CLEANUP

Use xylol

## 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. N0 WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE 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.

TECHNICAL DATA SHEET

# ARM707X-RM
# 100% SOLIDS EPOXY COATING

ArmorPoxy Inc.
860 Springfield Rd
Union, NJ 07083
armorpoxy.com
E: support@armorpoxy.com
P: 888-755-7361

## PRODUCT DESCRIPTION

ARM707X-RM is a 100% solids epoxy coating that provides outstanding customer value. 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, low odor formulation makes it ideal for larger indoor application areas.

## CHEMICAL AND PHYSICAL ANALYSIS

| | | |
|---|---|---|
| RESIN TYPE | EPOXY AMINE | |
| WEIGHT PER GALLON | 8.5-10.8 LBS | |
| WEIGHT PER LITER | 1.0-1.3 KG | |
| SOLIDS BY WEIGHT | 100% | |
| SOLIDS BY VOLUME | 100% | |
| VOLATILE ORGANIC COMPOUNDS* | <10 G/L | |
| RECOMMENDED THICKNESS | 8-12 MILS | |
| PRACTICAL COVERAGE | 115-170 SQ.FT/GAL | *COVERAGE WILL VARY BASED ON APPLICATION METHOD.* |
| MIXING RATIO | 2 PARTS A : 1 PART B | |
| WORKING TIME | 20-30 MINUTES | |
| POT LIFE | 30 MINUTES | *VARIES DEPENDING ON TEMPERATURE* |
| RE-COAT WINDOW (MIN/MAX) | 12 HOURS/24 HOURS | |
| CURE SCHEDULE (@ 77°F & 50% RH) | | |
| DRY TO TOUCH | 4-6 HOURS | *CURE SCHEDULE TIMES ARE APPROXIMATE AND WILL BE AFFECTED BY TEMPERATURE CONDITIONS AND RELATIVE HUMIDITY* |
| VEHICLE TRAFFIC | 48-72 HOURS | |
| FULL CURE** | 7 DAYS | |
| SHELF LIFE | 5 YEARS | |
| FLASH POINT | >200°F (93°C) | |
| COMPRESSIVE STRENGTH (PSI), ASTM | 7500 @24 HOURS / 9800 @7 DAYS | |
| C695 | 4500-5200 | |
| TENSILE STRENGTH (PSI), ASTM D412 | 6500 | |
| BOND STRENGTH TO CONCRETE | - | |
| (PSI), ASTM D4541 | >600 | |
| TABER ABRASION, ASTM D4060 | - | |
| (CS17 LOSS/1000 CYCLES) | = 36 MG | |
| FLAMMABILITY, ASTM D635 | SELF-EXTINGUISHING | |
| WATER ABSORPTION (24 HOURS), | - | |
| ASTM D570 | <0.5% | |
| KONIG HARDNESS, ASTM D4366 | 120 | |
| TENSILE ELONGATION, ASTM D638 | 20-30% | |
| MONOLITHIC SURFACING, ASTM | - | |
| C722 | PASS | |
| IMPACT RESISTANCE, ASTM D2794 | PASS | |

*EPA Method 24 Floor Category
**Coating achieves its full physical and chemical resistant properties.
Calculated values are shown and may vary from the actual manufactured material.

## ADVANTAGES

Versatile - Direct to Concrete // Low odor - 100% solids // Tenacious adhesion // Chemical resistant // Compliant nationwide with near zero VOC

## COMPOSITION

100% Solids Epoxy Coating

## PACKAGING

Sold in 1.5 Gal, 3 Gal, and 15 Gal Kits consisting of Part A and Part B.

## COLOR

Available in Clear, Medium, Light Gray, Desert Tan, Khaki Tan, Racing Blue. Tint Packs can be used with clear. Call your sales representative to check for in stock colors.

## KEY FEATURES



**Super Durable**




**100% Solids Low Odor**



**Roll On & Squeegee Application**



**Chemical Resistance**



**Safe To Apply Indoors**

## RESTRICTIONS

**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.**

**BASE/BUILD** | **100% HIGH BUILD SOLIDS EPOXY**

TECHNICAL DATA SHEET

# ARMULWAGLCO
# ULTRAGLAZE CLEAR TOPCOAT

ArmorPoxy Inc.
860 Springfield Rd
Union, NJ 07083
armorpoxy.com
E: info@armorpoxy.com
P: 888-755-7361

## PRODUCT DESCRIPTION

Ultraglaze is an amazing 'water clear' (no amber/yellow cast like many clear coats) that can be used over most any surface. Perfect for topcoating our regular ArmorPoxy, and most other coatings to add significant life and shine. Can also be made less slippery by the addition of our Armorgrip Non Skid additive. Please note that Ultraglaze is not highly resistant to fuels and solvents.

## RECOMMENED SURFACES

- **Garage Floors**
- **Patios**
- **Porches**
- **Brick**
- **Stone**
- **Driveways**
- **Exposed Aggregate**
- **Stamped Concrete**

## PRODUCTS TO BE USED WITH

- **ArmorClad Coating Kit**
- **Virtually any other ArmorPoxy epoxy coating**

## FEATURES

- **Seals and protects painted, stained or bare concrete**
- **Seals in color**
- **Reduces pockmarking and cracking**
- **Clear finish, will not yellow**
- **Premium, urethane-fortified acrylic formula**

## PHYSICAL PROPERTIES

| | |
|---|---|
| **Resin Type** | Water-based acrylic urethane |
| **Pigment Type** | none |
| **Visual appearance** | Milky white (wet); dries clear |
| **Tire marking** | Resistant to most tires |
| **Clean-up** | Soap and Water |
| **Shelf life** | 2 years min. (closed container) |
| **Gloss** | 25 (1 coat) |
| **Gloss retention** | Excellent |
| **Ultraviolet resistance** | Excellent |
| **Dry Times (77°F (25°C) 50% RH)** | -- |
| **Touch** | 15 minutes |
| **Recoat** | 2 hours |
| **Light Foot Traffic** | 24 hours |
| **Vehicle Traffic** | 72 hours |
| **Konig hardness** | 64 |
| **VOC** | < 100 g/L |
| **Odor** | Low |
| **Coverage** | up to 700 sq.ft per gallon. will vary dependt on surfsce |

## CHEMICAL RESISTANCE

**ASTM D-1308**

| | |
|---|---|
| **Gasoline** | resistant |
| **Water** | resistant |
| **Oil** | resistant |
| **Salt** | resistant |
| **Chlorine** | resistant |

## BENEFITS



**Resistant to Hot Tire Pickup**



**Gloss Finish**




**2 Year Shelf Life**



**UV Resistant**



**Ready for Use in 24 Hours**



**Easy to Clean and Maintain**

**LIMITED WARRANTY: Manufacturer/Seller makes no warranty of any kind except that this product is free from defect and is of merchantable quality. Buyer remedy for breach of warranty is limited to replacement of ArmorPoxy product or refund of purchase price. Convenience Products will not be responsible for labor or the cost of labor for removal or application of any product. 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.**

TECHNICAL DATA SHEET

# ARM321X
# ARMORULTRA MILITARY GRADE TOPCOAT

ArmorPoxy Inc.
1260 North Ave
Plainfield, NJ 07062
armorpoxy.com
E: info@armorpoxy.com
P: 888-755-7361

## 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 |

## 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



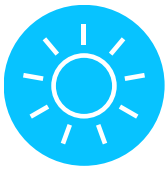
Chemical Resistance



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.**

**TOPCOAT** | **High Performace Urethane**

INSTRUCTIONS

# ARM321X
# ARMORULTRA MILITARY GRADE TOPCOAT

ArmorPoxy Inc.
1260 North Ave
Plainfield, NJ 07062
armorpoxy.com
E: info@armorpoxy.com
P: 888-755-7361

## PRODUCT STORAGE

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

## SURFACE PREPARATION

Surface preparation will vary according to the type of complete system to be applied. For a one or two coat thin build system (3-10 mils dry) we recommend either mechanical scarification or acid etching until a suitable profile is achieved. For a complete system build higher than 10 mils dry, we recommend a fine brush blast (shot blast). All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4' X 4' 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 dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.

## PRODUCT MIXING

This product has a two to one mix ratio by volume- merely mix two gallons of part A with 1 gallon of part B. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. Avoid whipping air into the coating. Improper mixing may result in product failure.

## PRODUCT APPLICATION

The mixed material can be applied by brush or roller. Maintain temperatures within the recommended ranges during the application and curing process. Properly prime the substrate. It is best to maintain a wet edge to avoid roller marks. Direct sunlight or high temperatures may cause visible roller marking during application. Too thick of an application may result in solvent entrapment and product failure

## RECOATING OR TOPCOATING

Multiple coats of this product are acceptable. If you opt to recoat this product, you must first be sure that all of the solvents have evaporated from the coating during the curing process. The information on the front side are reliable guidelines to follow. However, it is best to test the coating before recoating or topcoating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat can be started. Always remember that colder temperatures will require more cure time for theproduct before recoating can commence. Before recoating or topcoating, check the coating to insure no contaminants exist. If a blush or contaminants are present on a previous coat, remove with a standard detergent cleaner. When recoating this product with subsequent coats of the urethane, it is advisable to apply the recoat before 24 hour passes. Also, it is advisable to degloss the previous coat to insure a trouble free bond.

## CLEANUP

Use ketone solvents

## 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. N0 WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE 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.

TECHNICAL DATA SHEET

# ARMPOLY80-RM
# 80% SOLIDS POLYASPARTIC COATING

ArmorPoxy Inc.
860 Springfield Road
Union, NJ 07083
armorpoxy.com
E: support@armorpoxy.com
P: 888-755-7361

## PRODUCT DESCRIPTION

ARMPOLY80-RM is a two component low odor polyaspartic floor coating that provides excellent UV, chemical, and abrasion resistance plus a <24 hour return to service time. ArmorPoly 80 is a versatile coating primarily used as a base coat direct to concrete and as a top coat over psrtial and full broadcast systems. Armor Poly 80 is sold clear, but may be pigmented using Armorpoxy universal colorants.

**RECOMMENDED FOR**: Recommended areas where a medium build coat is desired and installation downtime is very limited. Can also be used in a full broadcast fleck system where downtime is limited.

## CHEMICAL AND PHYSICAL ANALYSIS

| | |
|---|---|
| **RESIN TYPE** | **POLYASPARTIC POLYUREA** |
| **WEIGHT** | |
| **PER GALLON** | **9.0 LBS.** |
| **PER LITER** | **1.1 KG/L** |
| **SOLIDS BY VOLUME** | **80%** |
| **VOC** | **<250 G/L** |
| **RECOMMENDED DRY FILM THICKNESS (DFT) PER COAT** | **6-12 MILS** |
| **WET FILM THICKNESS (WFT) TO ACHIEVE DFT (UNTHINNED MATERIAL)** | **8-16 MILS** |
| **MIXING RATIO** | **1:1 (PART A TO PART B)** |
| **INDUCTION TIME** | **NONE REQUIRED** |
| **POT LIFE** | **30-35 MINUTES** |
| **COVERAGE** | **APPX. 250 SQ.FT./GAL.** |
| **DRY TIMES (@72°F AND 50% RH)** | *CURE SCHEDULE TIMES ARE APPROXIMATE AND WILL BE AFFECTED BY TEMPERATURE CONDITIONS AND RELATIVE HUMIDITY* |
| **TACK FREE** | **2-4 HOURS** |
| **DRY HARD** | **24 HOURS FOR VEHICLE TRAFFIC** |
| **RECOAT** | **2-12 HOURS** |
| **SHELF LIFE** | **2 YEARS** |

## FEATURES AND BENEFITS

- Fast return to service time, Low Odor and can accept vehicle traffic in 24 hours
- UV Stable, excellent chemical, abrasion and heat resistance
- Can be applied at temperatures between 30°F to 90°F
- Available in gloss finish

## ADVANTAGES




**UV Stable** | **Can be used on Low Temp Equipment** | **Tintable** | **Virtually No Odor** | **Quick Drying**

## APPLICATIONS



**Marine Protection (Fiberglass, Steel)** | **Concrete, Wood, Masonry** | **Airplane Hangars** | **Warehouse Facilities** | **Auto Body Shops**



**Garage Flooring** | **Car Wash** | **Waste Facilities** | **Indoor Basements** | **Food Processing Facilities**

## PERFORMANCE CHARACTERISTICS

| | |
|---|---|
| TENSILE STRENGTH (ASTM D412) | **6,000** |
| COMPRESSIVE STRENGTH (ASTM D695) | **9,400** |
| ELONGATION (ASTM D412) | **100** |
| HARDNESS, SHORE D (ASTM D2240) | **78** |
| GLOSS (ASTM D523) @ 60° | **90+** |
| ABRASION RESISTANCE (ASTM D4060) | |
| CS-17 WHEEL, 1,000 G LOAD, 500 CYCLES | **28** |

## Restrictions

***Extreme cold temperatures may slow cure times.**
****If 12 hour recoat time has elapsed, the coating must be properly abraded and cleaned prior to recoating.**

**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.Minimum/Maximum temperature of substrate: 42 °F / 86 °F**

***Notice: Armorpoxy, Inc. flooring systems are FDA compliant as per the FDA and Center for Food Safety and Applied Nutrition (CFSAN) US Food Code 6.101.11 Surface Characteristics.6-101.11 Surface Characteristics. (A) Except as specified in (B) of this section, materials for indoor floor, wall, and ceiling surfaces under conditions of normal use shall be: (1) SMOOTH, durable, and EASILY CLEANABLE for areas where FOOD ESTABLISHMENT operations are conducted; (2) Closely woven and EASILY CLEANABLE carpet for carpeted areas; and (3) Nonabsorbent for areas subject to moisture such as FOOD preparation areas, walk-in refrigerators, WAREWASHING areas, toilet rooms, mobile FOOD ESTABLISHMENT SERVICING AREAS, and areas subject to flushing or spray cleaning methods.***
***Reference: https://www.fda.gov/media/110822/download (page 117)***

***USDA:All armorpoxy, Inc. flooring systems are USDA compliant as per the USDA Sanitation Performance Standards Compliance Guide. 6-201.11 Floors, Walls, and Ceilings. Except as specified under § 6-201.14, the floors, floor coverings, walls, wall coverings, and ceilings shall be designed, constructed, and installed so they are smooth and easily cleanable, except that antislip floor coverings or applications may be used for safety reasons.***
***Reference: https://www.fsis.usda.gov/inspection/compliance-guidance/sanitation-performance-standards-compliance-guide***

**BASE/TOPCOAT** | **Polyaspartic**

INSTRUCTIONS

# ARMPOLY80-RM

## 80% SOLIDS POLYASPARTIC COATING

ArmorPoxy Inc.
860 Springfield Road
Union, NJ 07083
armorpoxy.com
E: support@armorpoxy.com
P: 888-755-7361

**PLEASE READ INSTRUCTIONS THOROUGHLY BEFORE APPLICATION BEGINS. THIS IS A FAST DRYING PRODUCT WITH < 15 MINUTES OF WORKING TIME.**

**PRODUCT STORAGE:** Store product in an area as to bring the material to normal room temperature before use. Continuous storage should be between 60 and 90 degrees F. Low temperatures or great temperature fluctuations may cause product crystallization**.**

**SURFACE PREPARATION:** The concrete surface must be free of all dirt, grease, oil, fats, and other contamination. Remove surface contamination by cleaning with degreaser, detergent, or other suitable cleaner. Rinse thoroughly with clean, fresh water and allowed to dry.
*NEW, UNCOATED CONCRETE:* New concrete must be allowed to cure for a minimum of 30 days before application. In addition to the aforementioned cleaning, the concrete must be further prepared by mechanical grinding or acid etch to remove all laitance and produce a suitable surface profile.
*PREVIOUSLY COATED CONCRETE:* 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 sanded to dull the finish and produce a slight surface profile. Remove all sanding dust by vacuum.

**PRODUCT MIXING:** Both components should be pre conditioned to a minimum of 50º F (10ºC) prior to use. Thoroughly mix each component separately before combining. If only using part of a container, be sure to use a separate mixer blade for each component to avoid cross contamination.

Pour the Part A and Part B components together in a clean, dry five gallon container and power mix for a minimum of two minutes. Do not entrain air into the mixing. Do not mix more material than can be applied in 20-25 minutes.

If using less than a full container, combine the components using a mixing ratio of 1:1 by volume, Part A (Base) to Part B (Activator). If using Armorpoxy universal tint packs then add 1 Pint of tint per 2 Gal of mixed material.

**EQUIPMENT RECOMMENDATIONS:**
*ROLLER:* Use a high quality 1/4" or 3/8" inch nap lint-free roller
*BRUSH:* Use a disposable natural fiber chip brush, 2-4 inch wide for cut in work.

**PRODUCT APPLICATION:** Apply only when air, material and floor temperatures are between 30-90°F (-1-32°C). Do not apply in direct sunlight or when temperature is rising. Colder environmental conditions can slow the cure of ARMPOLY80-RM. For application outside of this temperature range, please contact ArmorPoxy Technical Service.

Immediately after mixing, pour the material onto the floor in a long, 8 to 12 inch wide stripe.
*NOTE:* Do not scrape the sides or bottom of the container. Use only the material that flows naturally out of the container. Also, do not turn the container upside down and leave on the floor to drain. Doing so may result with unactivated material from the sidewall of the container being applied. This will cause soft spots in the coating.
Use a a roller or rubber squeegee (if appying by squeegee) to spread the material out and achieve the appx 250 sq.ft./gal. spread rate. Back roll the material smooth using a a lint free roller to smooth out the finish.
*NOTE:* Coverage rate can vary depending on the texture and porosity of the concrete.

**THINNING:** Not normally required.

**CLEAN-UP:** Use Acetone.

**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, non-harsh chemicals, and water until the coating is fully cured. 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. N0 WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE 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.