



ArmorPoxy Inc.
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ARMPOLY85-CM

85% SOLIDS POLYASPARTIC COATING (CLEAR)

PRODUCT DESCRIPTION

ARMPOLY85-CM is a two component, 85% solids, V.O.C compliant, aliphatic polyaspartic polyurea that was developed for UV stable floor topcoats. It provides outstanding appearance, superior chemical, UV, and solvent resistance and exhibits excellent physical properties.

RECOMMENDED FOR: Recommended areas where a thin/medium build clear 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

SHELF LIFE	12 MONTHS
MIX RATIO	1 PART A TO 1 PART B
POT LIFE	5-10 MINUTES @ 77°F
SOLIDS BY WEIGHT	83%
SOLIDS BY VOLUME	85%
PACKAGING	2 GAL KITS. 1 GAL A, 1 GAL B
COLORS	CLEAR - PIGMENT PACKS
-	AVAILABLE UPON REQUEST
RECOMMENDED THICKNESS	5-10 MILS PER COAT
COVERAGE	150 SF PER GALLON @ 10 MILS
-	350 SF PER GALLON @ 5 MILS
CURE SCHEDULE	-
TACK FREE	4-6 HOURS
RECOAT TIME	3-6 HOURS
FOOT TRAFFIC	12-24 HOURS
HEAVY EQUIPMENT TRAFFIC	>48 HOURS
TABER ABRASER CS-17 WHEEL/ 1000G (2.2 LBS.)/1000 CYCLES	30 MG LOSS
-	-
WATER ABSORPTION, ASTM D570	0.2%
HARDNESS (SHORE D), ASTM D2240	75-78
FLEXIBILITY, 1/8" MANDREL, ASTM D1737	PASS
-	-
FALLING SANDS ABRASION RESISTANCE (L SAND / 1 DRY MIL), ASTM D968	45
GLOSS, ASTM D523	95+
TENSILE STRENGTH, ASTM D638	6500-7500 PSI
COMPRESSIVE STRENGTH (PSI MPA) ASTM D695	9500
-	-
ELONGATION AT BREAK, ASTM D638	100%
TEAR STRENGTH (PLI), ASTM D2240	350
VOC	0 G/L

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

FEATURES

Short working time of <15 minutes // Displays fast cure times with excellent adhesion // Superior chemical resistance // Superior weather and abrasion resistance // Non yellowing and good gloss retention // Easy to mix 1:1 ratio by volume // Emits virtually no odors and can be applied indoors // Excellent adhesive properties, allowing application on other firm and hard coating as well as a good bond to the substrate // V.O.C compliant in all 50 states and in Canada

COMPOSITION

85% solids, V.O.C compliant, aliphatic polyaspartic polyurea developed to act as a UV Stable topcoat.

PACKAGING

Sold in 2 Gal Kits consisting of 1 Gal of Part A and 1 Gal of Part B. (CLEAR)

COLOR

Available in Clear. Color pigment packs can be added for color. Consult your sales representative on available colors.

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

Restrictions

Minimum/Maximum temperature of substrate: 42 °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.
Protect from humidity, condensation and contact with water during the 24-hour initial curing period

*Note: 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>*

INSTRUCTIONS

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

PRODUCT STORAGE

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

SURFACE PREPARATION

The most suitable surface preparation would be sand blasting, diamond grinder w/30 grit or coarser or acid etching (followed by a thorough rinsing) to remove all laitance and provide a suitable application profile. All dirt, foreign contaminants, oil 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'X4' 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.

PRODUCT MIXING

PLEASE ONLY PREPARE QUANTITY THAT MAY BE APPLIED DURING POT LIFE OF MIXTURE. MIX RATIO IS 1A:1B.

Lightly shake the A and B containers separately to place the solids content evenly in suspension. Pour component B and component A into the bucket using the proper mixing ratio of **1A:1B** by volume. **If you have a TINT PACK, mix in the tint pack with the A & B. 1 Pint (16oz) per 1.5-2 gallons of polyaspartic & 1 Quart (32oz) per 3 gallons of polyaspartic.** Mix both components for at least 3 minutes using a drill at low revolution (300 to 450 rpm) to reduce trapping of air. While mixing, scrape bottom and walls of the container at least once to ensure a homogenous mix. Only prepare the quantity that may be applied during pot life of mixture.

PRODUCT APPLICATION

The mixed material can be applied by brush or roller. However, the material can also be applied by a suitable serrated squeegee and then back rolled as long as the appropriate thickness recommendations are maintained. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. If concrete conditions or over aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating.

RECOATING OR TOPCOATING

If you opt to recoat or topcoat this product, you must first be sure that the coating has tacked off before recoating. PLEASE REFER TO THE REOCAT WINDOW STATED IN THE TDS. All previous coats should be deglossed to insure a trouble free bond prior to application of recoats or topcoats. Colder temperatures will require more cure time for the product before recoating or topcoating can commence. Many epoxy coatings as well as multiple coats of this product are compatible for use as a primer, build or topcoat coating. If using a product not sold by Armorpoxy please consult with your sales representative to ensure product compatibility.

CLEANING

Clean all tools and materials with the cleaner/thinner for epoxies. Wash hands and skin carefully with warm soapy water. Once product has hardened, it may only be removed through mechanical means.

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.

HEALTH AND SAFETY

In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Predict suitable ventilation.

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. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABILITY 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.