TECHNICAL DATA

ARM812X
LIQUID METAL ROOF COATING

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ROOF

Copolymer Roof Coating

PRODUCT DESCRIPTION: ARM812X is an acrylic liquid rubber coating modified for excellent elongation, tensile strength, UV resistance and exceptional weathering characteristics. This flexible membrane has excellent waterproofing performance and resistance to ozone as well as superior low temperature flexibility. This product has shown strong adhesion to properly prepared metal substrates including anodized metals.
RECOMMENDED FOR: For all metal type roofs.

SOLIDS BY WEIGHT: 60% (+,-3)
SOLIDS BY VOLUME: 55% (+,-3)
RECOMMENDED COVERAGE: Coverage depends on surface conditions and application procedures. Normally, 1 gallon per 100 square feet of a base coat and 1 gallon per 100 square feet of a topcoat combine to achieve the recommended 32 mils thickness (16 mils each coat).
COLORS: Available in light sky gray or white. Other colors available(subject to minimum quantities)Colors may vary from batch to batch due to variations in feed stock material
RECOMMENDED FILM THICKNESS: 20-22 mils total dry film thickness will result from applying the recommended 32-34 mils wet thickness (applied in two coats)
PACKAGING INFORMATION:
Available in 5 gallon pails and 55 gallon drums (volumes approximate per container)

TYPICAL PROPERTIES: (LIQUID FORM)		
PROPERTY	TEST METHOD	RESULTS
Viscosity @ 75°F, 50% R.H.	BROOKFIELD VISCOMETER (krebs stormer)	5,000-10,000 (142 krebs typical)
Density	ASTM D1475 U.S. standard weight per gallon cup at 75°F and 50% R.H.	Mean= 9.85#/gallon
Particle size	ASTM D1218	<38 microns or hegman 4-5
VOC	EPA Method 24	3.84#/gallon
Heat stability	10 days at 120°F then re-evaluated	Material stability maintained
Shelf life	Closed container at 65°F	One year shelf life
Flash point	ASTM D3278 seta flash closed cup apparatus	105°F
UNDERWRITERS LABORATORIES, INC., TESTED AND CERTIFIED FOR CLASS A U.L. CERTIFICATION TESTING DATA AVAILABLE UPON REQUEST		

TYPICAL PROPERTIES: (CURED FILM)		
PROPERTY	TEST METHOD	RESULTS
Hardness	ASTM D2240 shore A @ 75°F 50% R.H. Barcol hardness tester model 3061	50-60
Accelerated weathering	ASTM G53 (1000 hours QUV accelerated weather tester UV-B lamps no. QES-40/280-315 nanometers. (12 hr. QUV @ 60°C and 12 hr. con @ 50°C)	Excellent with no apparent degradation
Tensile strength	ASTM D412 @ 75°F and 50% R.H. Test is result of medium value(for 3)	1000 psi
Elongation	ASTM D412 @ 75°F and 50% R.H.	500% minimum
Thermal Emittance	ASTM E408	0.89 (white)
Solar Reflectance	ASTM E903	82.5 (white)
Water absorption		0.04%
Vapor transmission	ASTM E96	0.025 perms
Cure time	@70% R.H./70°F	24-48 hours

BENEFITS OF USING
Excellent adhesion to a variety of substrates
Excellent low temperature flexibility
Excellent weathering and UV Stability
Excellent shelf life
Good resistance to dirt pickup
Excellent flexibility
Easy to use one component product
Meets Federal VOC requirements
Resists mildew and fungi growth
Good resistance to Alkalis and acids

LIMITATIONS
Allow material to cure (24 hours) before exposure to rain or dew. Do not apply a second coat until the first coat is dry. Close all sources of air intake from roof into building to prevent solvent odor transfer into building. Do not use indoors. Product cures from solvent evaporation- do not apply thicker than recommended. Too thick of an application can effect insulation boards such as EPS. Read the MSDS before using this product. Product is not resistant to solvent exposure. Physical properties are typical values and not specifications. Please see reverse side for limitations of our liability and warranty.

Rev 11/21

INSTRUCTIONS

ARM812X

MIXING AND APPLICATION INSTRUCTIONS: Roof Coating

STORAGE
Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 80 degree F.

MIXING
Mix the material before use as needed to provide a uniform mixture. Mix with slow speed equipment to minimize air being whipped into product.

SURFACE PREPARATION
Make certain that the substrate where the product is to be applied is clean, sound and free of all laitance, dirt, dust, oil, grease, water, dew or foreign contaminants. Power washing will be an effective preparation method for most substrates. When coating painted metal roofs we recommend an adhesion test. Use ArmorGarage Bonding Primer if coating does not adhere to the metal coating. We recommend sealing all screw heads and any separated seams with ArmorGarage Roof Mastic.

ENVIRONMENTAL CONDITIONS
Do not apply material when temperature is below 40°F during the application time or drying period. Apply material when RH is below 90% for best results. Allow for adequate dry times between coats and before inclement weather or rain. Higher humidity or lower temperatures will slow the dry time.

APPLICATION
This product may be applied by roller, brush, or spray. Spray applications require 3300psi and 1 gpm capacity as minimum, use with .030 tip. Be sure to apply this product at the specified coverage rate or recommended mil thickness. Too thick of an application may result in solvent entrapment. All stripped screws should be replaced with oversized roof screws and all damaged seams and joints must be properly repaired. Apply one gallon per 100 square feet per coat (two coats required). Always check the previous coat for foreign contamination before recoating. First coat must be free from water and dry before second coat application.

REOPEN SERVICE TIME
Take notice of the full cure time and do not open the area to foot traffic before the full characteristics of the coating is achieved. Apply when weather permits 24 hours of rain free curing.

MAINTENANCE
Provide for routine maintenance of your roof to assure years of trouble free performance. Ponded water areas without positive flow of debris to drain where the debris is left to build up can cause delaminations and tearing and therefore ArmorGarage Ponding Water roof Coating should be used in those areas. Regularly remove debris and flush drains as routine maintenance before build ups affect the coating.

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 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.***

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