ARMOR GARAGE INC.
Manufacturers of High Performance Industrial Coatings

Phone: 866-532-3979
www.armorgarage.com
info@armorgarage.com

ARM814

COPOLYMER ROOF COATING

PRODUCT DESCRIPTION

ARM814 is a copolymer 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 low temperature flexibility. This product has shown good adhesion to many properly prepared substrates including EPDM.

Recommended for: Most common roof substrates such as all tar-based roofs, EPDM, APP, TPO, and Hypalon.

Not recommended for: Application over wood or indoor use.

Excellent UV Stability	**Low Temp Flexible**	**One Component**	**Mildew Resistant**	**Federal VOC Compliant**

TECHNICAL DATA - LIQUID PROPERTIES

SOLIDS BY WEIGHT:	60% (+/- 3)	**SOLIDS BY VOLUME:**	52% (+/- 3)
VISCOSITY:	5,000-10,000 cP (142 krebs)	**DENSITY:**	9.85 lbs/gallon
PARTICLE SIZE:	<38 microns (hegman 4-5)	**VOC:**	3.84 lbs/gallon
HEAT STABILITY:	Maintained at 120F/10 days	**FLASH POINT:**	105F (ASTM D3278)
SHELF LIFE:	1 year (closed, 65F)	**DOT CLASS:**	Combustible liquid
COVERAGE:	100 sf/gal per coat (2 coats)	**FILM THICKNESS:**	20-22 mils total DFT
COLORS:	Light Sky Gray, White	**PACKAGING:**	5 gal pails, 55 gal drums

TECHNICAL DATA - CURED FILM PROPERTIES

Property	Test Method	Results
Hardness	ASTM D2240 Shore A @ 75F 50% RH	50-60
Accelerated Weathering	ASTM G53 (9000 hrs QUV)	Excellent, no apparent degradation
Tensile Strength	ASTM D412 @ 75F 50% RH	1,000 psi
Elongation	ASTM D412 @ 75F 50% RH	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% RH / 70F	24-48 hours

UL Certification: Underwriters Laboratories, Inc. Tested and Certified for Class A. UL Certification testing data available upon request.

BENEFITS

- 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 and elongation (500%+)
- 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 affect 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.

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ARM814 MIXING AND APPLICATION INSTRUCTIONS

Copolymer 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°F and 80°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 topcoating EPDM or seamed roofs, make sure all seams are secure. Precautions should be exercised when coating surfaces with insulation boards such as EPS to determine that the coating will not affect the underlying insulation. When the type of insulation board is unknown, a suitable test patch can be applied to determine suitability. Surface must be dry before application.

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 3,300 psi 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. For larger flat roof areas, if spraying is not practical, the product can be applied with a suitable serrated squeegee and then backrolled with a 3/8" nap roller tool.

Too thick of an application may result in solvent entrapment or rumpling of substrates such as EPDM. Apply one gallon per 100 square feet per coat (two coats recommended). Always check the previous coat for foreign contamination before recoating. First coat must be free from water and dry before second coat application.

NOTE: If applying over porous substrates such as concrete, always apply a test patch to determine suitability concerning out-gassing, which could result in pin-holing or potential blisters.

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 are 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 debris is left to build up can cause delaminations and tearing — 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

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 is not a representation or 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. **NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE THAT OUR PRODUCT SHALL BE MERCHANTABLE OR FIT FOR ANY PARTICULAR PURPOSE.** Our liability is limited to the net selling price or replacement of our product, at our option.

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.**