



ROOFARMOR

ACRYLIC

Waterborne Acrylic Elastomer

DESCRIPTION AND USE

ROOF ARMOR - ACRYLIC is a high-solids, heat-resistant, single-component water-borne acrylic elastomeric coating. ROOF ARMOR - ACRYLIC is formulated to have excellent adhesion to polyurethane foam as well as other properly prepared construction surfaces. ROOF ARMOR - ACRYLIC features include:

1. Ease of application
2. Outstanding UV resistance
3. Excellent low temperature flexibility
4. Non-flammable; water clean-up
5. Excellent dirt pickup resistance
6. Excellent fungus & mildew growth resistant

COLORS

Standard colors are Dark Gray, Light Gray and White. Other colors are available on special order.

COVERAGE

ROOF ARMOR - ACRYLIC has a theoretical dry film thickness of 8.3 mils when applied at 1 gallon per 100 square feet.

STORAGE STABILITY

ROOF ARMOR - ACRYLIC has a minimum shelf life of one year when stored at temperatures between 40°F and 80°F. Caution should be exercised to prevent material from freezing.

THINNER

ROOF ARMOR - ACRYLIC should be applied directly from the container without thinning.

PRIMER

Sprayed Foams: No primer necessary. Consult manufacturer for application to other surfaces.



APPLICATION INSTRUCTIONS

ROOF ARMOR - ACRYLIC must be mixed thoroughly prior to application to assure uniformity. All special colors should be mixed prior to application to assure uniform dispersion of the pigments. ROOF ARMOR - ACRYLIC may be applied by brush or roller, and by either conventional or airless spray equipment. Surfaces to which ROOF ARMOR - ACRYLIC is to be applied shall be free of water, grease, oils, dirt, debris, and other foreign materials.

CREDENTIALS AND CERTIFICATIONS

ROOF ARMOR - ACRYLIC is classified as Class A by Underwriters Laboratories in accordance with UL-790 and is an integral component of numerous roof deck assemblies under UL File #14330.

ROOF ARMOR - ACRYLIC is listed by the California State Fire Marshall

ROOF ARMOR - ACRYLIC exceeds all the minimum requirements for ATSM D6083 and is Title 24 compliant.


CURE TIMES

ROOF ARMOR - ACRYLIC, when applied at 22 wet mils and at conditions of 75°F and 50% relative humidity, will dry to the touch in 4 hours, may be recoated in 12 hours, and will reach final cure in 30 days. Colder weather and/or higher humidity will retard curing, where as hotter weather and/or lower humidity will accelerate curing.

Note: A quick set version is available upon request

RECOMMENDED THICKNESS

ROOF ARMOR - ACRYLIC, when used as a protective membrane over polyurethane foam, should be applied to a minimum of 24 dry mils in two applications. Coarse or textured surfaces may require more coating to obtain the desired dry film thickness.

| | | | |
|--|--------------------------|----------------|------------------|
|  | | Initial | Weathered |
| | Solar Reflectance | 84.4 | 67.0 |
| | Thermal Emittance | 0.90 | 0.91 |
| | Rated Product ID | 0684-0002 | |
| | Licensed Manufacturer ID | 0684 | |
| Classification | Acrylic Coating | | |
| <small>Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.</small> | | | |
| <small>Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating procedures.</small> | | | |

**NOMINAL PROPERTIES
ASTM D6083**

| PHYSICAL PROPERTY | TEST METHOD | REQUIREMENT | Roof Armor VALUE |
|--|--------------------|----------------------------|-------------------------|
| Solids by Volume | ASTM D2697 | > 50 | 52% |
| Solids by Weight | ASTM D1644 | > 60 | 66% |
| Flash Point | ASTM D56 | No Reference | >212°F |
| Initial Elongation (%) | ASTM D2370 | 100 Minimum | 200 (+/-25) |
| Initial Tensile Strength (psi) | ASTM D2370 | 200 Minimum | 310 (+/-50) |
| Dry Adhesion (pli) | ASTM C794, D903 | No Reference | 3.5 |
| Wet Adhesion (pli) | ASTM C794, D903 | 2 Minimum | 2 |
| Tear Resistance (lbf / in) | ASTM D624 | > 60 | 130 |
| 1000 hr Accelerated Weathering | ASTM D4798 | No Cracking or Checking | No Cracking or Checking |
| Elongation After Accelerated Weathering (%) | ASTM D2370 | 100 Minimum | 175 (+/-25) |
| Low Temperature Flexibility After Accelerated Weathering | ASTM D522 | Pass 1/2" Mandrel @ - 15°F | Pass |
| Permeance (perms) | ASTM D1653 | 50 Maximum | 47 |
| Water Swelling (%) | ASTM D471 | 20 Maximum | 8 |
| Fungi Resistance (zero = No Growth) | ASTM G21 | Zero Rating | Zero Rating |
| Impact Resistance | ASTM D2794 | No Reference | >160 |
| Tension Set @ 100% | ASTM D-412 | No Reference | 0% |
| Durometer hardness: Shore A | ASTM D-2240 | No Reference | 65-75 |

The information contained herein is for purposes of identifying the product and does not constitute a warranty that the product will conform to that description. Product specifications and performance will vary depending on application methodologies, raw materials and other factors.

WEATHERING AND ULTRAVIOLET RESISTANCE

ROOF ARMOR - ACRYLIC had excellent appearance with no significant discoloration, checking, cracking, delamination or loss of flexibility and only slight chalking after 8,000 hours QUV accelerated weathering.

SAFETY, HEALTH & TOXICITY DATA

ROOF ARMOR - ACRYLIC is intended for application only by professional trained applicators. Avoid breathing of vapor or spray mist. Care should be taken to exclude all personnel not directly involved with the spray application. Roof Armor - Acrylic should not be applied when the wind is of sufficient velocity to cause overspray of adjacent areas, buildings or people.

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