

# ARMOR COAT

## ROOF COATINGS

# AC 100

### PRODUCT DESIGN

**ARMOR COAT 100 (AC 100)** is manufactured using one of the industries most advanced, highest quality, water-based, non-toxic, 100% acrylic polymer resins available today. Similar in performance to the **AC 50**, but designed to meet specifications calling for coatings with a higher solids content. **AC 100** was developed primarily for use directly over spray in-place polyurethane foam due to its excellent adhesive qualities as well as its superior reflectivity making it extremely UV resistant to protect your roof from the intense heat and the sun's damaging ultra-violet rays encountered in the Southwestern United States.

### PRODUCT USE

While **AC 100** was originally designed for use over spray in-place polyurethane foam, it is an excellent choice for many other substrates, including, but not limited to metal, asphalt emulsion, masonry, asphalt shingles, cap sheet, plywood and concrete. In some cases, a primer/basecoat may be required. *Consult with manufacturer for any/all application specific recommendations prior to starting your install.*

### PRODUCT LIMITATIONS

**AC 100** is not a vapor barrier and should not be used over cold storage facilities. Keep product from freezing. Product should be stored between 55°F and 90°F to prolong shelf life. Do not apply when temperatures are below 60°F and falling. Do not apply when rain or freezing temperatures are forecast within 24 hours. Do not apply in areas without positive drainage.

### PRODUCT ADVANTAGES

- HIGHLY REFLECTIVE
- EXCELLENT ELASTICITY
- HIGH SOLIDS CONTENT
- ENVIRONMENTALLY SAFE
- EXCELLENT ADHESION TO MOST SUBSTRATES
- RETAINS ELASTICITY

### APPLICATION

Surface should be clean, dry and free from foreign materials (i.e: dirt, oils, grease, loose paint/coatings, loose gravel, etc.). **AC 100** should be applied at a rate of 1.5 to 3.5 gallons per 100 sq. feet depending on job. (Consult with manufacturer for recommendations/requirements). Product should never be applied at a rate greater than 1.75 gallons per 100 sq. ft. in any one pass/application. If additional gallons are needed, multiple applications are required. Product can be applied with brush, roller (1.25" nap) or spray (back rolling recommended to avoid pin-holing). Adequate cure time is required in between applications and can vary with weather conditions (Consult with manufacturer for recommendations/requirements). When applying over fresh foam, a minimum of 2 gallons should be applied in two separate coats within 48 hours of the foam application.

### WARRANTY

Any/all guarantees/warranties for products sold by Armor Coat Roof Coatings are limited only to those provided in writing and only available to the applicator of the product. The information listed herein is to be used only as a guide and is subject to change without notice. All information contained in this document is believed to be reliable, but may vary to some degree. **NO WARRANTY, WHETHER EXPRESSED/IMPLIED, INCLUDING FITNESS OF USE, IS MADE BY ARMOR COAT WITH RESPECT TO THE PRODUCTS OR INFORMATION SET HEREIN.** Liability, if any, is limited to replacement of product only.

### PHYSICAL PROPERTIES

**COLOR:** White, Gray and Tan  
(custom colors available)

**GRADE:** Spray or Roll

**TEXTURE:** Smooth

**BASE:** 100% Acrylic

**1. SOLIDS BY WEIGHT:**

**70% (±2)**

**2. SOLIDS BY VOLUME:**

**60% (±2)**

**3. TENSILE STRENGTH:**

**317 psi (±20)**

**4. ELONGATION**

**255% (±20)**

**5. DUROMETER HARDNESS**

**69 Shore A (±5)**

**6. PERMEANCE:**

**6 U.S. Perms @ 20mils**

**7. VISCOSITY:**

**118 K.U. (±4)**

**8. REFLECTIVITY:**

**86%**

**9. EMMISIVITY:**

**.89%**

**10. LOW TEMP FLEXIBILITY**

**Passes 180° flex over 1/2" mandrel @ -5° F**

\* some results are calculated based of formula