

---

## **ARS-3**

### **Roof Coating Systems**

### **Reflectivity, Maintenance, or Architectural Color**

## **APPLICATION GUIDE**

### **1. DESCRIPTION**

---

The Acrymax ARS-3 Coating Systems are elastomeric coating systems specified as reflective coating systems for energy savings, maintenance coatings, or as a color coating for architectural or aesthetic purposes. These systems provide monolithic roof coverings with superior weatherability and durability that also offer protection for existing roofs from UV and normal weathering degradation. Acrymax Coatings are waterborne materials that are VOC compliant and exceed all regulatory requirements.

The ARS-3 Systems include the following:

System designation	Membrane thickness (mils)	Suggested Substrates
ARS-3(15)	15 average, 12 minimum	Metal, Single-ply, Concrete
ARS-3(20)	20 average, 17 minimum	Asphalt

### **2. MATERIALS**

---

The materials used in the ARS-315 Systems may include AF-130BC Basecoat, AF-130 Finish-coat, AF-100 Concrete Sealer, AF-127 Sealer-Primer, or PR-101 Wash Primer.

### **3. APPLICATION EQUIPMENT**

---

Acrymax AF-130 Coatings can be applied by brush, roller, or spray. Airless spray is the most efficient method of application where proper conditions and expertise exist. Suggested spray equipment should be capable of 2500 – 3000 psi with output of 2 - 2.5 gallons per minute. Tip size .027 to .041. Application by roller or brush may require additional coats to achieve uniform membrane thickness, but material requirements will generally remain the same. Rollers should be medium or long nap. (3/4" recommended)

### **4. INSTALLATION**

---

Installation of the ARS-3 Systems are accomplished in five (5) basic steps: (a) Preparation, (b) Repair, (c) Application of AF-130BC Basecoat, (d) Application of AF-130 Finish Coats and (e) Inspection

#### **(a) Preparation**

---

Acrymax AF-130 coatings must have a clean surface to adhere to. Proper surface preparation is the key to successful applications. All dirt, debris, oils etc. must be removed by the most effective method possible. High-pressure water (2000 psi minimum) is the preferred method. Vacuuming, stiff brooming, and low-pressure water washing can also be used. When high-pressure water washing is used it should be done at a pressure suitable to remove embedded dirt and contaminants without damaging the substrate that is being cleaned and care must also be taken to make sure that water

does not intrude into the building or the existing roofing system. On oxidized asphalt roofs use of AF-127 or an appropriate primer should be considered (*consult Acrymax*). Priming is not a substitute for proper cleaning. Roofs that have been previously coated with aluminized asphalt coatings must be prepared vigorously to insure a stable surface for coatings to adhere to. Priming with AF-127 or an asphalt primer may be necessary. Granulated surfaces should be primed with AF-127 Primer at the rate of 1 gallon per 250 square feet. EPDM roofs must be prepared with PR-101 Wash-Primer according to product instructions. Previously uncoated concrete surfaces should be primed with AF-100 Concrete Sealer.

A tape test should be used to determine acceptability of cleaned surface for coating application. This is done by applying masking tape to the surface to be coated, and then peeling off the tape. If the adhesive side of the tape shows contaminants that will interfere with the adhesion of the coatings, then further cleaning or use of a primer may be necessary.

### ***(b) Repair***

---

Acrymax coatings should not be applied over roofing, insulation, or related materials that are saturated with moisture. All necessary repairs must be done according to good construction practices. Acrymax AF-130BC should be used along with Poly-1 polyester reinforcement fabric in appropriate widths to repair and reinforce all defects, cracks, or other areas requiring reinforcement.

### ***(c) Application of AF-130BC Basecoat***

---

Before application of coatings verify that the surface to be coated is cleaned and prepared properly. At any time during application of the Acrymax coatings if roof surface becomes contaminated with dirt, dust or other materials that will interfere with adhesion of the coatings then cleaning measures must be taken to restore the surface to a suitable condition. Dust should be blown off of surfaces to be coated with compressed air or blowers before application of coatings. All required materials must be applied and minimum dry film thickness achieved.

1. Apply Acrymax AF-130BC Basecoat in a color that will contrast with the finish coat. Apply in a uniform manner at minimum application rate of 1 gallon per 100 square feet for the ARS-3(15) System and 1.25 gallons per 100 square feet for the ARS-3(20) System.
2. Allow to dry a minimum of 2 to 4 hours before applying finish coat.

### ***(d) Application of AF-130 Finish Coat***

---

1. Apply Acrymax AF-130 Finish Coat in the color desired. Apply in a uniform manner at minimum application rate of 1 gallon per 100 square feet for the ARS-3(15) System and 1.25 gallons per 100 square feet for the ARS-3(20) System. White is the suggested finish color for energy efficiency and reduced thermal stress on the roof.

### ***(e) Inspection***

---

Inspect entire roof area and touch-up deficient areas with additional Acrymax AF-130 as necessary to insure complete and uniform coverage.

## **5. LIMITATIONS**

---

These are general guidelines for application of the Acrymax ARS-315 System. The material requirements may vary depending on the specific job requirements. If unusual conditions exist, contact Acrymax Technical Service at 610-566-7470. Acrymax Fluid Applied Elastomeric roofing systems must be applied to structurally sound substrates and properly prepared surfaces. All surfaces must be clean and dry before application of coatings. The suitability of Acrymax coatings or systems for an intended

use shall be solely up to the user. Drying time and coverage are not guaranteed. Acrymax roofing systems must not be applied over wet insulation or related materials. Failure of the substrate does not constitute failure of the Acrymax coating or system. Acrymax systems are designed for use on well drained roofs, however, it is acceptable for use where poor drainage causes temporary ponding. Acrymax Coatings should not be applied when rain, fog, dew or freezing temperatures are expected before coating is dry.

## **6. WARRANTY**

---

Acrymax offers limited material warranties for the ARS-315 System when all materials are used in strict accordance with all of Acrymax's written requirements and recommendations and required dry film thicknesses are achieved. Acrymax's sole responsibility under this limited material warranty is for defective material and Acrymax's obligation shall not exceed the purchase price of the Acrymax materials used or part thereof proven to be defective. Submittal of required documentation is required for warranty. Consult Acrymax for details. This warranty gives specific legal rights and you may have other legal rights that vary from state to state. No statement by anyone may supersede this limited material warranty, except when done in writing by Acrymax's Technical Service Office in Media, PA.

### **NOTES:**

1. Acrymax coatings are waterborne. Consequently application of these materials must not be done when rain or other conditions such as fog or heavy dew are possible before coating can dry sufficiently to be resistant to these occurrences. Drying time is affected by numerous factors including temperature, direct sunlight, relative humidity, air movement, thickness and color of applied coating, etc... Under proper conditions dry times for coatings will be from 2 to 4 hours, but under adverse conditions dry times can range to 12 hours or more. Application should not be done when temperatures are below 45°F or expected to drop below freezing before coating is dry. Special attention should be given to the dew point temperature because when this temperature is reached and dew forms the drying process of the coatings will cease.
2. Surfaces must always be clean before application of AF-130 Coatings. Care must be taken to insure that on-site manufacturing emissions or extended time intervals after original cleaning do not interfere with any stage of the coating applications. If either condition occurs then cleaning may be required again.
3. Adequate coating thickness is essential to performance. If the applicator is unfamiliar in gauging application rates, we suggest that a controllable area be measured and the specified material be applied. In all cases all minimum specified material must be applied and proper minimum dry film thicknesses must be achieved. Care must be taken to insure that all areas completed including all flashings, roof penetrations, etc. are coated sufficiently to insure a watertight seal.
4. Consult ACRYMAX TECHNOLOGIES if any deviations from published specifications are considered. Unapproved deviations from application guidelines and specified material requirements may seriously affect the coating system performance, and shall be undertaken at the specifier's, applicator's or building owner's own risk.
5. Applicator must comply with all applicable local, state, and federal regulations if lead based paint or other hazardous materials are encountered.
6. Roofing is hazardous work and coatings are very slippery when wet. Comply with fall protection rules and regulations.

Acrymax® is a registered trademark of Acrymax Technologies, Inc.