



# TECHNICAL BULLETIN

## “ELASTAHYDE” #770 AXP

### White Elastomeric Acrylic Coating

#### FLUID APPLIED REINFORCED ROOFING • REFLECTIVE COATING SYSTEMS

### 1.0 DESCRIPTION & RECOMMENDED USE

**ElastaHyde 770 AXP** is a 100% acrylic, premium quality, high durability, elastomeric coating which has been developed to protect smooth APP Modified Bitumen and various roof surfaces. This product was designed to adhere to smooth APP Modified Bitumen and other asphalt products. Because of its design and adhesive characteristics it performs extremely well under ponding conditions. It can be used with polyester reinforcements to create an extremely tough and durable roof membrane. Reinforced coating system is **FM Approved**.

**ElastaHyde 770 AXP** reflects over 83% of Sun's rays and serves as a thermal reflector due to hiding & reflective pigments. **ElastaHyde 770 AXP** can contribute to substantial energy savings. **ElastaHyde 770 AXP** is listed as a “Cool Roof” by the “Cool Roof Rating Council” as required by California Title 24 guidelines\*\*. (Reflectivity based on White)

When cured **ElastaHyde 770 AXP** forms an extremely tough, flexible film that can withstand the most rigorous weather conditions. When reinforced it forms a complete waterproof membrane. This coating is designed as a surface coating for smooth mod. bit., asphalt emulsion and our “Fluid Applied Reinforced Roofing” membranes. **ElastaHyde 770 AXP** is also recommended for use on conventional built-up, single ply, foam and metal roof systems. **ElastaHyde 770 AXP** is water based and not DOT regulated or labeled for highway transport.

### 2.0 TECHNICAL DATA

<b>Base</b> .....	100% Acrylic
<b>Color</b> .....	White
<b>Solar Reflectivity</b> .....	(White) (Initial) 83% ASTM E97
<b>Thermal Emittance</b> .....	(Initial) 89% ASTM E97
<b>SRI (Solar Reflectance Index)</b> .....	104 ASTM E1980-01
<b>Flammability</b> .....	Wet: Non-flammable
..... Dry (Non-Reinforced):	Class A U.L. 790
..... Dry (Reinforced):	Class A U.L. 790
..... Dry:	Class A ASTM E108
<b>Elongation</b> .....	(Non Reinforced) >650% ASTM D2370
<b>Elongation</b> .....	(Reinforced) >60% ASTM D412
<b>Tensile Strength</b> .....	(Non Reinforced) >100 psi ASTM D2370
<b>Tensile Strength</b> .....	(Reinforced) >2213 psi ASTM D412
<b>1000 hr Xenon Arc UV Exposure</b> .....	Pass ASTM D4798
<b>Permeance</b> .....	<4 ASTM D1653
<b>Low Temperature Flexibility</b> .....	Pass 30°F ½” ASTM D522
After 1000 hr Weatherometer .....	Pass 30°F 1” ASTM D522
<b>Solids</b> .....	50% by volume ASTM D2697
<b>Solids</b> .....	64% by weight ASTM D1644
<b>Blister Resistance after 14 days</b> (Mod.Bit.) .....	Excellent
<b>Fungi Resistance</b> .....	no growth ASTM G21
<b>Salt Spray Test</b> .....	no effect (coating or substrate) ASTM B-117
<b>Weight Per Gallon</b> .....	Approximately 11.5 lbs.
<b>Consistency</b> .....	Heavy paint, for heavy duty spray, brush or roller
<b>Viscosity</b> .....	100-110 (KU) ASTM D562
<b>Application Temperature</b> .....	Min. 50° F Max. 100 °F (ambient)
<b>Drying Time</b> .....	(70°F @ 50% r.h.) @100 sq.ft./gal. = 1 hour

### 3.0 DIRECTIONS FOR USE

Surface must be dry and free of dirt, dust, oil, grease, wax, rust, chalky or loose paint, mildew and any other surface contamination that may inhibit adhesion. Repair cracks, breaks, open seams, and other roof imperfections with a heavy sealer such as **WCP-800 Elastic Cement** or recommended caulking or flashing compounds. When coating over newly-applied asphalt emulsions such as WCP-298 or 298E, proceed when the emulsion is thoroughly dry.

The curing time of asphalt emulsion is 2 to 3 days in warm, dry weather. All asphalt or mod. bit. surfaces must be washed to remove any residue that may cause lack of adhesion or “tobacco staining”.

### 4.0 APPLICATION

1. **ElastaHyde 770 AXP** may be applied by roller, brush or spray. Apply per specifications. On existing previously coated surfaces; clean surface thoroughly before applying **ElastaHyde 770 AXP**, scrubbing with a detergent solution if necessary to remove oils and other residues. Flush immediately with strong stream of water. Some surfaces may require priming (consult Western Colloid).

2. Stir thoroughly to ensure uniform application by brush, roller or spray. For best results apply in a two coat cross hatch manner (first application is at right angle to second). Apply uniformly over entire roof surface with heavier coat around vents and seams. Apply only when coating will not be subject to heavy dew, rain, moisture or freezing within 48 hours of application

3. **COVERAGE:** 33 to 100 Square feet per gallon per coat. Total 2 to 8 gallons per 100 sq. ft. depending on specification and type of surface. To allow for proper drying and curing do not apply in application rates greater than (3 gal. embedment) (1½ gallons surface) per square per coat. Multiple coats required for heavier coverage.

4. Equipment Clean Up: Soap and warm water.

**PRECAUTIONS:** Do not apply **ElastaHyde 770 AXP** when surface or air temperature is below 50° F, or if cold weather, rain or fog is expected within forty-eight hours of application. **ElastaHyde 770 AXP** cures through dehydration. Drying time may vary depending upon wet film thickness, temperature, humidity and air movement **ElastaHyde 770 AXP** should not be exposed to ponding conditions until coating has completely cured. For optimum energy savings, **ElastaHyde** should be cleaned yearly. \*\*To meet California Title 24 requirements **ElastaHyde 770 AXP** should be surfaced coated with 10 mils of **ElastaHyde 720 ARC** or **790 AFC**.

READ AND FOLLOW DIRECTIONS CAREFULLY. REFER TO MSDS FOR PROPER HANDLING.

STORE CONTAINERS IN COOL, DRY, PROTECTED AREA. KEEP FROM FREEZING. KEEP LIDS TIGHTLY CLOSED WHEN NOT IN USE.

NOT RECOMMENDED OVER WOOD SHINGLES OR UNTREATED WOOD SURFACES.


### LIMITED WARRANTY

WESTERN COLLOID warrants its products to be of merchantable quality and suitable for the general purpose for which they were intended, when applied in accordance with WESTERN COLLOID's instructions. WESTERN COLLOID does not warrant its products to be suitable for any purpose or use other than for which they were intended. Liability under this warranty is limited to supplying new material without charge, or at WESTERN COLLOID's option, to a refund of the purchase price. In the event of a claim under this warranty, notice must be given in writing at the addresses shown hereon. THIS LIMITED WARRANTY IS ISSUED AND ACCEPTED IN LIEU OF ALL OTHER EXPRESSED WARRANTIES, AND EXPRESSLY EXCLUDES LIABILITY FOR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

The Cool Roof Rating Council (CRRC) label for our product as required by California Title 24:

Product Name: **ElastaHyde 770 AXP - “White”** (White Elastomeric Reflective Roof Coating)

CRRC Product ID: **0682-002**

		<u>Initial</u>	<u>Weathered</u>
	<b>Solar Reflectance</b>	<b>0.83</b>	<b>0.70</b>
	<b>Thermal Emittance</b>	<b>0.90</b>	<b>0.91</b>
	Rated Product ID	0682-002	
	Licensed Manufacturer ID	0682	
	Classification	Production Line	
<p>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.</p> <p>Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</p>			

**SRI** (Solar Reflectance Index) as required by LEED and other programs: = **104** (ASTM E1980-01)