Western COLLOID

TECHNICAL BULLETIN
PRODUCT #525
ALUMINUM REFLECTIVE ROOF COATING
"SILVERWHITE"

FLUID APPLIED ROOFING SYSTEMS - REFLECTIVE COATINGS - ASPHALT SEALCOATS

1.0 DESCRIPTION & RECOMMENDED USE

SilverWhite is a durable, water based, specially-formulated aluminum asphaltic emulsion which has been developed to resist rigorous weather conditions while protecting roof surfaces and can contribute to energy savings. **SilverWhite** has excellent elongation and tensile strength. When properly applied **SilverWhite** reflects up to 76% of sun rays. This prevents premature aging and roof burn-out by reducing UV degradation and thermal shock. The product dries to a flexible, elastomeric, slightly textured film with a beautiful metallic finish which will significantly slow down the aging of a roof system. **SilverWhite** is recommended for use on metal, smooth BUR, mineral surface, emulsion and Glas Shield roof systems.

2.0 TECHNICAL DATA

Base .....Asphalt Emulsion - ASTM D1227 Type III
Pigment.....Highly Polished Aluminum Flake
Flammability.....Wet: Non-flammable
..... Dry: Class A
Consistency.....Heavy paint, for heavy duty spray or brush
Reflectivity.....(Initial) 76% ASTM E97
Elongation .....166% ASTM D412
Tensile Strength..... 31 psi ASTM D412
Weatherability .....Excellent
Flexibility .....Excellent
Weight Per Gallon.....Approximately 8.5 lbs.
Application Temperature.....Min. 50º F Max. 100 ºF (ambient)
Drying Time .....(70ºF @ 50% r.h.) @100 sq.ft./gal. = 1 hour
Container Sizes..... 5 Gallon, 55 Gallon Drums, Bulk**

2.0 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 **#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 and cured. **SilverWhite** performs best when applied over new asphalt emulsion surfaces. The curing time of asphalt emulsion is 3 to 10 days in warm, dry weather, so additional cleaning may not be required if **SilverWhite** is applied within that time.

New, smooth, asphalt "glazed" surfaces should be allowed to age for 1 to 3 months then coated with **#298** or **#298E Asphalt Emulsion Roof Coating** before applying the **SilverWhite**. For best results existing roof surfaces should first receive a base coat of **#298** or **#298E Asphalt Emulsion Roof Coating**. Apply the emulsion at a rate of 2 to 3 gallons per 100 square feet. Allow to cure 3 to 10 days, as described above, then apply **SilverWhite**.

SilverWhite can be easily recoated when necessary. Make sure to clean existing **SilverWhite** before applying the new coating or for best results recoat the surface with 2 to 3 gallons per 100 square feet of **#298** or **#298E Asphalt Emulsion Roof Coating.**

3.0 APPLICATION

1. Clean surfaces thoroughly before applying **SilverWhite**, scrubbing with a detergent solution if necessary to remove oils and other residues. Flush immediately with strong stream of water. Make sure waste water is disposed of in compliance with all applicable environmental safety regulations.

2. Stir thoroughly to ensure uniform application by brush or spray. Roller is less effective. For best results spray apply. If brushing use a 24 inch wide soft bristle broom. Wind-row the **SilverWhite** and at an angle, broom the **SilverWhite** in place. Apply uniformly over entire roof surface. **SilverWhite** may be applied over a damp (not wet) surface. Apply only when coating will not be subject to heavy dew, rain or moisture within 72 hours of application. It may be necessary to cool down a very hot roof by spraying with water to prevent excessively fast drying of the coating.

3. COVERAGE: 100 Square feet per gallon depending on specification and type of surface.

4. Equipment Clean Up: Wash and flush with water.

PRECAUTIONS: Do not apply **SilverWhite** when surface or air temperature is below 55º F, or if cold weather, rain or fog is expected within seventy-two hours of application. When applied properly **SilverWhite** is an excellent, water repellent product. Nevertheless, it is not recommended on surfaces that pond water for extended periods of time. Do not apply **SilverWhite** over asphalt emulsion prematurely. The asphalt emulsion must be dry and cured. If **SilverWhite** is applied on uncured asphalt emulsion, it may turn gray, dark gray or brown. **SilverWhite** not only has to look dry, it must be completely cured to be fully protected against moisture. Do not apply **SilverWhite** in the late afternoon or evening when ambient temperatures are low, if rain is imminent or dew is expected to form. This could cause premature graying or browning or eggshell crazing.. Drying time may vary depending upon wet film thickness, temperature, humidity and air movement

NOT RECOMMENDED OVER ASPHALT OR WOOD SHINGLES, UNTREATED SURFACES, OR IN ROOF AREAS WITH INADEQUATE DRAINAGE.

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

STORE CONTAINERS IN COOL, DRY, PROTECTED AREA. KEEP FROM FREEZING

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.

654 East 60th St, Los Angeles, CA 90001 | office 323.231.8292 | toll free 800.464.8292 700 71st Avenue, Oakland, CA 94621 | office 510.430.0270 | toll free 800.956.4899