

application instructions

THERMCOTE /A-5 or A-10 METAL ROOF APPLICATION

MATERIAL ESTIMATION

CHLORINE BLEACH	1 QT per 100 S.F. (1 QT per 5 Gal)	
THERMAPATCH	1 Gal. Fills 175 cu. inches	Caulk and Seal all cracks 1/8" or greater
POLYMESH	Use quantity as needed: Rolls 4"W and 12" x 300' L, if applicable:	Tape any seams necessary; Use ELASTOPRIME™ as a saturate at approximately 1/2 Gal/Roll for each 100' mesh
OXIPRIME*	125-175 S.F. per Gal./per coat	2 coats required (1 st coat spot prime, 2 nd coat entire surface)
ELASTOPRIME*	<u>100-150 S.F. per Gal.</u>	Optional for ThermCote/A-5 – 1 coat required with application of ThermCote/A-10 to validate 12 year renewable warranty -
THERMCOTE/A-5 and THERMCOTE/A-10	Approximate Coverage: For CA – Title 24 requirements: 2 coats, each at 80 sq.ft./gal. per coat (Film Thickness at 80 sq.ft./gal/coat: 18-19 wet mils = 11-12 dry mils) ** All other Applications: 2 coats, each at 100 – 150 sq.ft./gal. per coat (Film Thickness at 100 sq.ft./gal/coat: 15-16 wet mils = 9-10 dry mils)	

* If metal roof shows no evidence of corrosion, **ELASTOPRIME™** (1Coat) may be substituted for **OXIPRIME™**. For extremely rusted metal surfaces substitute **OXIPRIME™** with **RUSTCOTE™**, a Direct-to-Rust one-part polyurethane

** when applied at a minimum of 20 dry mil film thickness, product meets or exceeds the standards specified in Title 24, California Code of Regulations, Part 6, Section 118 (f), Mandatory Requirements for Cool Roofs, Sub-Section 2.

GETTING STARTED

All coatings must be stirred manually or mechanically before being used (except for THERMAPATCH™). Do not let products freeze. Do not use any of these products at temperatures below 45 degrees Fahrenheit. Apply all products to dry surfaces only and do not apply products when they will be subjected to rain or heavy dew before they have had enough time to dry (Check Product Data Sheets). *Do not thin any products unless specifically mentioned within this application specification manual.*

STEP 1:

VISUAL INSPECTION and REPLACEMENT of DAMAGED BUILDING MATERIALS

The substrate to be coated must be in SOUND condition. Physically inspect the surface area for missing or damaged building materials. Check for loose or missing fasteners and tighten or replace them. Replace and/or repair all damaged areas back to sound and solid condition. Inspect for any existing leaks and be sure to repair leaks prior to the application of coating. Make sure roof is adequately vented. Check with a roofing contractor, if necessary.

STEP 2:

SURFACE PREPARATION of RUST

Rusted metals, including fasteners must be prepared properly by removing all scaling and flaking rust by scraping, sanding, wire brushing or sand blasting. Please be aware that the underside of the metal may also be rusted and should be repaired, or replaced with new metal.

STEP 3:

PRESSURE CLEANING

High Pressure Blast entire roof surface with at least 1500 P.S.I. of pressure using a water and chlorine solution (approximately 1 quart chlorine to 5 gallons of water). Thoroughly remove all dirt, oil, grease, residues, mold, mildew, algae and any other surface contaminants.

Severe mildew requires a stronger concentration of chlorine. When roof is completely cleaned, rinse with water only. Let roof surface dry at least 12 hours before continuing. **THERMCOTE/A-5 and A10™** have excellent mildew resistance, but WILL NOT kill mildew already on the surface.

STEP 4:

REPAIRING SURFACE & PATCHING IMPERFECTIONS

After surface has thoroughly dried, Patch and Caulk all screws, fastener heads, cracks, crevices, fractures, holes, valleys, vents, voids, etc., with **THERMAPATCH™**. Use a trowel or stiff brush to apply. Multiple coats are better than one thick coat. The thicker **THERMAPATCH™** is applied the longer it will take to dry. Wait at least 4 hours before applying a second coat of **THERMAPATCH™** and let final application dry at least 24 hours before continuing to next step. **THERMAPATCH™** dries from top to bottom, so be careful when working around a caulked area since it will be skin dry only. There is no problem coating over **THERMAPATCH™** even if it is not completely dry, since it is a high solids material.

NOTE: **THERMAPATCH™** allows minimal shrinkage, but the thicker it is applied the more it will shrink. Check **THERMAPATCH™** after 24 hours for shrinkage.

STEP 5:

TAPING SEAMS (If Applicable)

(If applicable, otherwise proceed to STEP 6). Tape all visible seams, large cracks & fractures prone to water intrusion on roof surface. Apply a liberal coat of PRIMER (**ELASTOPRIME™**) at 10 - 12 mils wet film thickness, directly to the affected area using brush, roller or airless sprayer and lay the **POLYMESH™** directly onto the WET PRIMER. Tape must be put down before

PRIMER has had a chance to start drying (approximately 15 minutes). After all areas are taped let dry for 1 to 2 hours and apply a second light coat of PRIMER at 5 - 8 mils wet over the top of the tape. Let the taping procedure dry for at least 2 hours before continuing.

STEP 6:

PRIME COAT

(A One Coat application of **ELASTOPRIME™** - at 100-150 sq.ft./Gallon- can be substituted for the Two Coat application of **OXIPRIME™**, if no rust is evident) You will notice **OXIPRIME™**; *Red Iron Oxide Primer*, to be quite thick, this is necessary to hold the corrosion resistant pigments in suspension. If thinning is absolutely necessary, use up to 8 ounces of water per gallon of primer. Thin only enough product to be used within a 24-hour period, or settling of the pigments may occur.

Apply **OXIPRIME™** using 1) brush, 2) at least a one inch nap roller, or 3) at least a 3,000 P.S. 1. airless sprayer with at least a .027 tip. First Spot prime all rusted areas and let dry at least 12 hours before applying the second coat of PRIMER to the entire roofing surface. Consideration should be given to use two complete coats of **OXIPRIME™** to reduce the possibility of future rust. When Spraying or Rolling **OXIPRIME™**, it must be applied perpendicular to the slope of the roof. Example: If the slope of the roof runs from North to South then the coating will be applied spraying from East to West. This will be the start of a checkerboard application pattern. See diagram below.

Apply the Full Coat application of **OXIPRIME™** at a rate of 125 - 175 square feet per gallon covering the entire roof surface. Wet film thickness of 8 - 10 mils wet resulting in dry film thickness of 6 - 8 mils. Let **OXIPRIME™** dry at least 12 hours before continuing.

STEP#: 7

FIRST COAT of FINISH TOPCOAT

Be sure entire surface is clean and free of all moisture. Be sure the entire area to be coated is primed, if not then spot prime specific areas. Apply **THERMCOTE/A-5™ or A-10™** using 1) a large roller with at least a one inch nap, or 2) at least a 3,000 P.S.I. airless sprayer with at

least a .027 tip. When Spraying or Rolling **THERMCOTE/A-5™ or A-10™**, the first coat must be applied perpendicular to the coat of PRIMER to achieve a checkerboard pattern. See diagram below.

Apply the first coat of **THERMCOTE/A-5™ or A-10™** at a rate of 100 - 150 square feet per gallon per coat over the entire roof surface. Wet film thickness of 12 - 15 mils resulting in dry film thickness of 8 - 10 mils. Let dry at least 12 hours before continuing.

STEP 8:

SECOND COAT of FINISH TOPCOAT

Be sure entire surface is clean and free of all moisture. Be sure the entire roof area is completely coated, if not then spot coat missed areas. Apply **THERMCOTE/A-5™ or A-10™** using 1) a large roller with at least a one inch nap, or 2) at least a 3,000 P.S.I. airless sprayer with at least a .027 tip. When Spraying or Rolling **THERMCOTE/A-5™ or A-10™**, the second coat of must be applied perpendicular to the first coat of **THERMCOTE/A-5™ or A-10™** completing the checkerboard pattern. See diagram below. Apply the second coat of **THERMCOTE/A-5™ or A-10™** at a rate of 100 - 150 square feet per gallon per coat over the entire roof surface. Wet film thickness of 12 - 15mils resulting in dry film thickness of 8 - 10mils. Let dry at least 24hours before your Final Evaluation.

STEP 9:

FINAL EVALUATION

At this time a detailed evaluation of the completed job will determine the quality of the workmanship and whether strict application specifications have been met. The entire roofing surface must be completely coated & sealed. Be sure to check that all roof areas are completely coated & sealed under permanently placed roof items such as roof top air conditioning units. Divide roof into 1,000 square feet sections and randomly check one spot in each section for a dry film thickness of at least 20 mils. Remember to touch up the penetration made by the dry film thickness gauge. If specifications have not been met, determine how much material will be required to meet specifications and recoat. Check dry film thickness again until specifications has been meet.

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