



Application Guide for Tile and Metal Roofs

The REFLECT-TEC™ System

- Designed for application to tile and metal roofing surfaces.
- Designed for application to metal wall surfaces when smooth finish is desired.
- Consists of REFLECT-TEC™ TEX-BOND™ Primer and REFLECT-TEC™ Heat-Reflective Finish
- Metal applications with bare or corroded metal must be spot-primed with REFLECT-TEC™ METAL-PRIME™.

Necessary Equipment

- Water blaster. Sand blaster, wire brush, grinder, and/or scraper may be necessary.
- Commercial Grade Airless Sprayer with .13-.15 spray tips for finish and .17-.19 spray tips for primer.
- Necessary masking materials.
- Various brushes and/ or rollers for edges and touch-ups.

Surface Preparation

- All surfaces must be sound, clean, dry and free of contamination such as mildew, dirt, grease, oils, chalk, and any other contaminant that may affect adhesion.
- All loose, flaking, and oxidizing paint must be removed with water blasting, sand blasting, wire brushing or scraping.
- Mold, mildew, and fungi must be completely and thoroughly removed with power washer prior to application with simple cleaning solution containing 1 quart bleach, 3 quarts water, 2/3 cup TSP, and 1/4 cup washing detergent.

Surface Preparation - Tile

- All broken tiles should be replaced prior to application – care should be taken when walking on tiles to prevent additional damage to tiles.
- Power washing should be done carefully and at the appropriate angle so that water does not go directly under tile, potentially damaging roofing structure and creating leaks.
- Caution should be used when determining proper pressure and distance from tile to prevent gouging or damaging tiles.

Surface Preparation – Metal

- All loose layers of previous coating and/ or baked on coating should be completely removed.
- Wire brushing, scraping, and grinding should be done as necessary to remove rust or corrosion and **smooth out high and low spots** after loose coating has been removed.
- Any bare or corroded metal must be spot-primed with TEX·COTE® METAL-PRIME™ prior to application of TEX-BOND™ Primer.

TEX-BOND™ Primer Application

- REFLECT-TEC™ TEX-BOND™ Primer should be applied with a commercial grade airless sprayer, using .17 - .19 spray tips, at a rate of 250-350 square feet per gallon, making sure that all pores are adequately sealed and a white, opaque primed surface is achieved on all exposed surfaces, including edges.
- Minimum 8-hour cure time under ideal weather conditions required before applying REFLECT-TEC™ Finish.

REFLECT-TEC™ Finish Application

- REFLECT-TEC™ Heat-Reflective Finish **must** be applied in two coats with a commercial grade airless sprayer, using .13 - .15 spray tips, at a rate of 400 square feet per gallon (per coat), maintaining a wet edge and ensuring uniform film thickness over the entire surface. Second coat can be applied as soon as first coat is dry to the touch.
- Use of spray wand recommended to maintain appropriate distance from surface to minimize overspray and achieve uniform film thickness.

Before REFLECT-TEC™



Before REFLECT-TEC™



Before REFLECT-TEC™ - Mold and Mildew Growth/ Broken Tile



Masking to prevent overspray



Application of TEX-BOND™ Primer



Proper REFLECT-TEC™ Coverage for tile edges achieved with roller



Application of 1st Coat of REFLECT-TEC™ Finish



Application of 1st Coat of REFLECT-TEC™ Finish



Application of 2nd Coat of REFLECT-TEC™ Finish



Completed Application



Tile – Completed Application



Tile – Completed Application



Over five years exposure in Hawaii with no mold, mildew, or fading.

Tile – Completed Application



Over five years exposure in Hawaii with no mold, mildew, or fading.

Arizona State University – Tile Application



Tile – Completed Application



Lihue Airport, Hawaii – Metal Application

