

Polyurethane over Metal Roof Coating Restoration

NOTE: This document provides a general overview of Inland's basic requirements for a polyurethane roof coating restoration over metal surfaces. For complete specifications and Technical Data Sheets, please review all product information at www.inlandcoatings.com before application.

REQUIREMENTS

- Roof must be structurally sound.
- Roof must be dry.
- Roof must be clean.
- Properly identify type of existing metal panel roof system and any existing coatings.
- Discuss leak history with building owner and diagnose any active leaks.
- Perform successful adhesion tests.

REPAIRS

- Replace damaged or non-structurally sound panels.
- Repair or replace any sheet metal that does not provide a watertight condition.
- Tighten or replace loose or worn-out fasteners. All fasteners should include an intact neoprene washer.
- Add stitch fasteners to close any gaps larger than 1/8".
- Remove all loose coating and incompatible repair material. All previous asphalt repairs must be removed.
- Install crickets behind curbs using In-Slope Ponding Water Eliminator to divert water.

RUST TREATMENT & CLEANING

- Wire brush any loose or scaling rust down to stable metal.
- RRC-600, a rust remover and conditioner available from Inland, may be used to treat remaining rust and help prevent further corrosion.
- Power-wash the substrate to remove all contaminants, dirt, oils, and other materials that may interfere with adhesion.
- CleanB4coat, a concentrated cleaner available from Inland, is designed for enhanced cleaning and degreasing.

PRIMING

- Unconverted rust should be treated with AldoPrime 710, applied at a rate of 0.5 to 0.75 gallons per 100 square feet.

FASTENERS

- Every fastener must be totally encapsulated with a dollop of mastic.

HORIZONTAL SEAMS

- All horizontal seams must be sealed using one of the following methods:
 - 1) Three-course method centered over the seam, consisting of either:
 - a) Coating | 4" Fabric | Coating
 - b) Mastic | 4" Fabric | Mastic
 - 2) 4-inch-wide band of mastic centered over the seam at a minimum thickness of 1/16-inch (63 wet mils).

VERTICAL SEAMS

- Vertical seam sealing is not necessary if the seam is mechanically locked. For all other vertical seams, use the following method:
 - 2-inch-wide band of mastic centered over the seam at a minimum thickness of 1/16" (63 wet mils).

PENETRATIONS & FLASHINGS

- All flashing edges must be sealed using one of the following methods:
 - 1) Three-course method centered over the seam, consisting of either:
 - a) Coating | 4" Fabric | Coating
 - b) Mastic | 4" Fabric | Mastic
 - 2) 4-inch-wide band of mastic centered over the seam at a minimum thickness of 1/16-inch (63 wet mils).

COATING APPLICATION

- Extra care should be taken to ensure proper coverage of vertical rib surfaces.
- Use a wet film gauge consistently throughout the application process to verify the correct coverage thickness is achieved.

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COVERAGE RATES

	10-YEAR	15-YEAR	20-YEAR
PRIMER (Required for Rusted Areas) Gallons Per Square	AldoPrime 710 0.5 - 0.75 Gal	AldoPrime 710 0.5 - 0.75 Gal	AldoPrime 710 0.5 - 0.75 Gal
BASE COAT Gallons Per Square Wet Film Thickness	AldoThane 384 1 Gal 16 WFT	AldoThane 384 1.25 Gal 20 WFT	AldoThane 384 1.25 Gal 20 WFT
INTERMEDIATE COAT Gallons Per Square Wet Film Thickness	—	—	AldoThane 386 1 Gal 16 WFT
TOP COAT Gallons Per Square Wet Film Thickness	AldoThane 386 1 Gal 16 WFT	AldoThane 386 1.25 Gal 20 WFT	AldoThane 386 1 Gal 16 WFT
TOTAL MIN REQUIREMENTS Gallons Per Square Wet Film Thickness	2 Gal 24 DFT	2.5 Gal 30 DFT	3.25 Gal 38 DFT