

Applicator Specification WM330, WM440, WM500

Adurel Roofing Specification

Seam and Flashing Waterproofing for Metal,
Transit Panel, and Federal Tile Roofs

Use over Existing Fabricated Roofing

Section 0700

Part 2 – Products (For complete specifications, see CD version)

2.01 Manufacturers

A. Adurel International, Inc., 820 Water St., Racine WI 53403 800.860.5834 262.643.3446 Fax

2.02 Surface Preparation (optional depending on substrate condition)

A. Adurel CC400 – a highly concentrated biodegradable clean-rinsing cleaner / degreaser

2.03 Primers

- A. CR40 – zinc-based alkyd rust primer
- B. EP50 T – a 2 part water based epoxy primer
- C. A606 – an acrylic resin stain blocking primer

2.04 Detail Mastics and Fabrics

- A. A707 M – aliphatic acrylic mastic for vertical joints and fasteners
- B. MS2000B – a thermoplastic solvent based brushable mastic for joints and fasteners
- C. PF57 – a 3.0-oz. stitch-bonded polyester for polymer reinforcement. Use sizes as appropriate.
- D. Death Grip – fabric-faced cured butyl-backed tape for horizontal laps and transitions

2.05 Mixing

A. Adurel primers and finishes – Mix to uniform consistency

2.06 Application Tools and Equipment: Application tools shall be equal and adequate to the equipment outlined for the work and workmanship required herein.

- A. Miscellaneous tools and equipment
 - 1. Caulk gun – 32 oz Qt cartridge gun for mastic application.
 - 2. 350-rpm 7-amp minimum 1/2" drill with rectangular paddle (to mix material)
 - 3. 4" HD double-thick chip brushes to smooth mastics
 - 4. 6' pole and duct tape, to attach brush for back-brushing vertical seams and fasteners
 - 5. 9" chemical-resistant rollers and frames for priming, if needed

Part 3 – Execution

3.01 Acceptable Installers

A. Pre-qualify under Quality Assurance requirements of the specification (section 1.07.B)

Addendum: Specification WM330, WM440 TP, WM550 FT

Instructions for waterproofing pre-engineered roofing systems at the joints and flashings.

A. Cleaning

- 1. Clean off any dirt or contaminants from surface that may interfere with adhesion.

B. Priming

<u>Surface</u>	<u>Primer</u>	<u>Coverage</u>
Rust	CR40	300 sq. ft. / gal.- Under acrylics only
Transit	EP50 T	250 sq. ft. / gal.- water based epoxy primer
Asphalt	A606	200 sq. ft. / gal.- Stain blocking acrylic resin for asphalt.

C. Fasteners

1. Replace stripped fasteners with oversized versions of the same fastener, i.e. aluminum, galvanized, or stainless must remain as designed by the manufacturer.
2. Apply dab of A707M, or MS2000 mastic over fasteners and back-brush around fastener until smooth. Method is determined by the following:

<u>Condition</u>	<u>Recommendation</u>
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Cold weather	limited to MS2000
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Color	MS2000 and U707M are white
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Required Thickness	A707 M and MS2000 both cure slowly and are limited to gaps under 1/8 th inch.
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D. Vertical Joints (See guide for specific material requirements.)

1. Gun and back-brush a liberal layer of A707 M or MS2000 mastic into joint to 100 mils.

E. Horizontal Joint (per specific job requirements)

Metal Roofs: This detail is normally required due to lap rusting and fastener stripping.

1. Prime joint with MS2200 and allow to tack. Set Death Grip 4" or appropriate size centered over joint leaving no wrinkles or fish-mouths.
2. Cover tape with MS2000 B brushable mastic to saturation. Extend mastic at least 2" beyond the tape.

Transit Panel Roofs: Do not detail unless determined to be the cause of the leak.

1. Gun MS2000 into joint and brush smooth.

Federal Tile Roofs: Do not detail unless determined to be the cause of the leak.

1. Gun or brush MS2000 under the lap. Do not create a water catch.

F. Flashings: Flashings will be finished in a fashion relative to the existing condition.

1. Integrate PF57 polyester liner into the polymer to saturation. Moving joint can be pre-detailed with Death Grip of appropriate size before covering with polyester and polymer method.

G. Closures

1. Replace missing closures. Push and refasten drifting closures into place.
2. Brush A707M or MS2000B over closure to saturation.

H. Curb Backs and Saddles (Optional additional work.)

1. Apply Adurel Black Magic 2 part pitch-pan filler to level the surface. Dry aggregate or other displacement can be used to pre-fill the area. After curing, integrate PF57 polyester over the area with the finish polymer.

I. Gutters (Optional additional work.)

1. Primer gutter with 1 layer of MS2200 and allow to tack. Caulk joint with MS2000B mastic and brush smooth. Integrate Death Grip tape of appropriate size centered over the joint while the mastic is still wet and squish into place leaving no air pockets.
2. Finish with 1-2 coats of the MS2200 over the entire gutter.

Practical Material Estimates

<u>Surface</u>	<u>Detail</u>	<u>Products</u>	<u>Coverage</u>	<u>Comments</u>
Metal Roofs	Vertical Joints	A707 M/ MS2000	50-80' per tube	see guide*
	Fasteners	A707 M	1/5 tube / sq.	see guide*
	Horizontal	DG-4"	250' per roll	see guide*
Transit Panels	Vertical Joints	A707 M, MS2000	2.5 tubes / sq.	Not always required
	Horizontal Lap	MS2000	1 tube per 40'	Not always required
	Fasteners	A707 M, MS2000	_ tube / sq. avg.	Not always required
Federal Tile	Vertical Joints	A707 M, MS2000	2.5 tubes / sq.	Not always required
	Horizontal Lap	MS2000	1 tube per 40'	Not always required
	Fasteners	A707 M, MS2000	_ tube / sq. avg.	Not always required

Materials will vary with site conditions and requirements of specific details. Site inspection required for more accurate estimates.

Metal Usage Guide:

Use MS2000 if there is rust or in cold weather below 40F

Death Grip cannot be set in wet A707M. Only MS2200 or MS2000.