

Adurel Roofing Specification

Metal Roof Restorations
Acrylic Methods

Use over Existing Metal Panel Roofs

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 Reinforcing Mesh

A. Flashing mesh / tape

1. PF57 – a 3.0-oz stitch-bonded polyester
2. Death Grip 2, 4, 6 – a high-tensile cured butyl fabric-faced tape
3. BT 2, 3, 4, 6 – an uncured butyl fabric-faced tape

2.04 Primers

A. CR40 – solvent alkyd-based rust primer

B. BT30 – flash dry primer for butyl tapes

2.05 Detail Mastics

A. MS2000B – SEBS brushable mastic option

B. A707M – acrylic mastic for vertical joints and fasteners

2.06 Finish Coats – Thermoplastic SEBS rubber

A. A707 / A808 – acrylic with extra hiding power

2.07 Mixing

A. Adurel primers and finishes – Mix to uniform consistency

B. Mastics – Make onsite mastics with PF2020 at a ratio of 2 parts finish to 2-part fiber for brush grade; 1:1 ratio for trowel grade (will vary with different urethanes).

2.08 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 – 20-oz. sausage type – for joint and fastener details
2. 350-rpm 7-amp minimum $\frac{1}{2}$ " drill with rectangular paddle – to mix material
3. 4" HD double thick chip brushes to smooth mastics
4. 6' pole and duck tape to attach brush for back-brushing vertical seams and fasteners
5. Diamond flex trowel to tool mastics
6. 9" chemical resistant rollers and frames for priming, if needed
7. Spray equipment having the equivalent of 3000 psi and 2 gal. / min. 3/8 min ID hose to gun with gun having reversible self-cleaning tip (see data sheets for specific tip requirements per coating)

Part 3 – Execution

3.01 Acceptable Installers

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

Addendum: Specification AD300 MS Instructions for restoration and waterproofing of metal roofs

A. Cleaning

1. Clean off any dirt or contaminants from surface that may interfere with adhesion. Use CC400 diluted 20:1 with water and power-rinse clean.

B. Priming

- 1. Prime rust and new metal with CR40 @ .33 gal. / sq. Do not leave puddles and allow to dry completely.

C. Fasteners

- 1. Replace stripped fasteners with oversized versions of the same fastener (i.e., aluminum, galvanized, or stainless must remain as designated by the manufacturer). Add fasteners as determined if needed.
- 2. Apply dab of A707M or MS2000B mastic over fasteners and back-brush around fastener until smooth. Use the MS2000B if the fastener is rusty and is the only rusty point on the roof.

D. Vertical Joints: Vertical joints will be finished in a fashion relative to the existing condition. Non-ferrous and pre-painted metals with well designed joints may not need this detail.

- 1. Gun and back-brush a liberal layer of A707M or MS2000B mastic into joint to 100 mils.

E. Horizontal Joints: Horizontal joints need to be screwed tight with the appropriate fastener to minimize movement both during the application and after completion.

Option A: Mastic Method

- 1. Gun A707M in serpentine pattern centered and under joint to approx a 2" girth. Feather upper and lower edges with a brush or trowel.

Option B: Tape Method

- 1. Clean surface and caulk seam with MS2000B. Apply the BT4 or Death Grip tape centered on the lap. Use the MS2100 as a primer if there is rust on the lap. BT-30 can be used on non-rusty laps. Tape cannot have gaps at corners or fish-mouths.

Option C: Polyester Method

- 1. Clean surface and apply 4"-12" polyester set in A707M mastic and brush smooth. This method is preferred when a larger detail is required due to previous patching or deterioration.

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

- 1. Integrate polyester fabric in the A707M or MS2000B mastic to saturation.

G. Closures

- 1. Replace missing closures. Push and refasten drifting closures into place.
- 2. Brush A707M liberally onto closure and smooth onto transitions.

H. Application of Finish Coats

- 1. Spray finish coat centered at the rib from peak to gutter and immediately back from gutter to peak. Spray pattern should extend past both ribs approx 3" onto adjacent panels. Long roofs can go from horizontal lap to lap. Pay special attention to keep a wet edge and have wind blowing from wet work toward the sprayer if possible to avoid sand finish overspray. Job conditions may require 2 coats.

I. Curb Backs and Saddles – Optional additional work

- 1. Fill with Adurel Black Magic 2-part quick-set urethane. Cover perimeter of mix with A808 and polyester after curing.

J. Gutters – Optional additional work

- 1. Set PF57-4" in wet coating to saturation centered on joints and coat with 2 layers of U5500 @ 1.5 gal. / sq. per coat. Any Adurel SEBS is an option.

K. Skylights – Optional additional work

- 1. Finish with A606 transparent blue or optional clear. Apply 2 coats @ 1.5 gal. / sq. per coat.

Practical Material Estimates	Detail	Products	Coverage	Total Mils
Metal Roof Systems	Primer	CR40	1/4 gal. / sq. as needed (not needed under MS2200)	
	Seams	A707M	1 tube / 30-90 ft.	
	Fasteners	A707M	1 tube for 300 fasteners	
	Horizontal	BT-4"	50' per roll	
<u>Acrylic Finish</u>	<u>AD300 MA</u>	<u>A808</u>	<u>2 coats @ 1.25 gal. / sq.</u>	<u>18 mils</u>
<u>Acrylic / Rusty</u>	<u>AD300 MAR</u>	<u>A707/A808</u>	<u>1.5 gal. / A707, 1.5 gal. A808</u>	<u>24 mils</u>

Note: Physical data subject to changes without notice as products are improved and modified for better performance.