

Adurel Roofing Specification

Polyester Reinforced with SEBS Poured-in-Place Roof Systems

Use over Existing Smooth Surface Asphalt and Modified Bitumen 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 Primer / Base Coat**

A. A606 – acrylic resin base coat for setting liner

B. A404 – lock coat over the A606

**2.04 Reinforcing Mesh**

A. Field and flashing mesh

1. PF57 – a 3.0-oz stitch-bonded polyester

**2.05 Finish Coat**

A. MS2200 – SEBS finish

**2.06 Mixing**

A. Adurel primers and finishes – Mix to uniform consistency

B. Adurel 2 component or catalyzed products – Mix completely for 2 minutes

C. 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)

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

A. Equipment required for applying coating

1. 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)

2. Notched neoprene chemical-resistant squeegees: 1/8<sup>th</sup> notch for 1 gal. / sq., 3/16<sup>th</sup> notch for 1.5-2 gal. / sq. for hand applications

3. 9" and 18" chemical-resistant rollers with 1/2" nap and phenolic cores for back rolling squeegee pattern

B. Special tools for flashings

1. Diamond flex trowel for fabricating cants at flashing / wall transitions

2. HD 4" short bristle chip brushes for flashing details and smoothing mastic

C. Miscellaneous tools and equipment

1. Caulk gun – 20-oz. sausage type

2. 350-rpm 7-amp minimum 1/2" drill with rectangular paddle (local source)

3. Cloth scissors for cutting fabrics

4. 18" emulsion squeegee/brush for smooth in insulation and spreading urethane in cold weather

**Part 3 – Execution**

**3.01 Acceptable Installers**

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

**Addendum: Specification AD100 MS Instructions for restoration of asphalt-based surfaces**

**A. Cleaning**

1. CC400 cleaner diluted 20:1 with water. On heavy dirt or grease, apply full strength. Broom-scrub the soap solution and rinse with a minimum 2500 psi water-blaster. If there are algae, add 5% bleach to rinse.

**B. Wet Roofing Replacement**

1. Locate wet insulation and remove. Replace with new Isocyanurate insulation to match the existing roof level. Fill joint with MS2000T and strike smooth. Fabricate transitions with MS2000. Integrate PF57 polyester to saturation with MS2100 / MS2200 @ 3 gal. / sq.

**C. Repair of Existing Splits and Blisters**

1. Make a minimum 2" cut perpendicular to the split at each end of the split. Cut open blisters rising over 1/2" making an X-type cut and fold back the cut sections. Apply MS2000T into the inside of the opened area. Fasten the flaps of the blister into the coating. Reinforce splits and cuts with PF57 polyester set in MS2100 / MS2200 urethane to saturation. Extend patching a minimum 6" beyond splits and cuts.

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

**Method A:** Integrate PF57 polyester liner in wet base coat to saturation.

**E. Field Reinforcement – Resin Method**

1. Apply the base coat or A606 at the base of the wall and set liner in wet base. Pull liner out approx. 10' and pull until square with roof. Pour a large puddle of resin over the top of the liner and push over the liner with the 24" applicator brush. After setting roll, run over same area with the brush to remove wrinkles and air pockets. Extend the liner membrane and coating into the drain bowl and replace clamping ring.

Coverage will average the following to set liner using resin method:

- Smooth Modified: 2.2 gal. / sq.
- Granular Modified: 3.25 gal. / sq.
- Asphalt Built Up: 2.5-3 gal. / sq.

**F. Application of Lock Coat – Intermediate Lock Coat**

1. Apply 1 coat of A808 @1 gal. / sq. over dry A600 using the 1/8" squeegee and 18" rollers.

**G. Application of Finish Coats**

1. Pour out the MS2200 finish coat across the roof and spread out with the notched squeegee applicator tool. Back-roll the same area immediately after 1/2" nap 18" rollers.

<b>Practical Material Estimates</b>	<b>Specification</b>	<b>Products</b>	<b>Coverage</b>	<b>Total Mils</b>
<b>Fully Reinforced – Resin lined</b>	Resin base liner	A606*	2.25-3.5 gal. /sq.* average	
	Lock Coat	PF57-40	1 roll / 10 sq.	
<u>Finish Option F-SEBS</u>	<u>AD100 F</u>	A404	1-1.25 gal. / sq.	
		<u>MS2200</u>	<u>1.5 gal. MS2200 per sq.</u>	<u>36 mils</u>
<u>Finish Option G-SEBS-HD*</u>	<u>AD100 G</u>	<u>MS2200</u>	<u>2.5 gal. MS2200 per sq. in 2 coats</u>	<u>48 mils</u>
<u>*Use in ponding conditions</u>				

\*Resin quantities will vary with roughness of existing surface.

<b>Fully Reinforced – All SEBS</b>	liner	PF67-42	1 roll / 10 sq.	
<u>Finish Option G-SEBS-HD*</u>	<u>AD100 HD</u>	<u>MS2100 Base</u>	<u>2.5-3 gal / sq. to set line</u>	<u>48 mils</u>
<u>*Use under solar, or any heavy duty conditions.</u>				
		<u>MS2200 finish</u>	<u>2 gal / sq.</u>	

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