

Adurel Roofing Specification

New Construction – Retrofit
Thermoplastic SEBS Method

Use for High-Performance 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 Primer / Base Coat

- A. MS2100 – base coat for MS2200 only
- B. BT30 – butyl tape activator / primer

2.03 Reinforcing Mesh

- A. Panel joint and flashing mesh
 - 1. PF57 – a 3.0-oz stitch-bonded polyester
 - 2. Death Grip 2, 4, 6 – a fabric-faced cured butyl tape
 - 3. TF80 – a 3.0 oz warp knit tricot polyester for seamless integration into MS2200.

2.04 Insulation

- A. Any ridged insulation can be applied under the facer. EPS must have a minimum of 1.5 lb. density on the first 1.5" immediately under the facer. Balance of insulation for desired "r" factor can be lower density.

2.05 Insulation Facer

- A. Securock cement fiber composite panel by USG or equal

2.06 Finish Coat

- A. MS2200 – Thermoplastic SEBS solvent-based system

2.07 Mixing

- A. Adurel primers and finishes – Mix to uniform consistency

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. 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
 - 3. 9" and 18" chemical-resistant rollers with 3/4" nap
- 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 – High leverage Qt caulking gun, 2-component gun for AF15 foam
 - 2. 350-rpm 7-amp minimum 1/2" drill with rectangular paddle (local source)
 - 3. Cloth scissors for cutting fabrics

Part 3 – Execution

3.01 Acceptable Installers

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

Addendum: Specification AD500 D New Construction / Retrofit

A. **Vapor Retarder:** Conditions must be taken into account to prevent moisture condensation in the roof assembly. Install desired vapor retarder on the deck or on a substrate of insulation, as required.

1. Concrete or plywood surfaces – Coat with 2 gal. / sq. U5500
2. Metal Decks – Install ½” Securock or exterior gypsum on deck or between insulation layer below expected dew point and coat with 2 gal. / sq. U5500. Detail joints with DG-2 tape.

B. **Insulation and Facer Attachment**

1. Attach per FM requirements. Adurel AF15 foam adhesive is preferred. Stagger all joints.
2. Space panels per manufacturers specifications.
3. If using screws and plates, cover plates with MS2000B and strike smooth.
4. Install a minimum 3” wood cant at wall transition and anchor securely to wall.

C. **Joint Detail**

Tape Method

1. Remove all dust and prime joint with BT30 or MS2100 to saturation.
2. Tape short seams first stopping at the next joint.
3. Coat end laps of short seams with MS2000B and strike smooth.
4. Tape long laps with 4” tape centered on the seam. Cut all fish-mouths at a 45-degree angle from the joint and stick down tight. Cover same area with MS2000B and strike smooth.

Polyester Method

1. Prime and tape joints with 2” BT tape, as above.
2. Cover same seam with MS2100 set in PF57-6” polyester to saturation leaving no wrinkles or fish-mouths.

D. **Flashings**

1. Trowel the MS2000T mastic around the base of the penetration or at the juncture of roof to wall so that the mixture is 3” wide and a minimum uniform ¼” depth at the center that tapers to 40 mils at the edge.
2. Polyester same transition with PF57 fabric set in MS2100 to saturation.

E. **Drains**

1. Taper insulation into drain. Install lead sheet 3’ x 3’ under drain set in U5500M. Stop edge of Securock sheathing so that termination is 6” from ring or a 2’ x 2’ sump. Set drain in MS2000T sealant. Extend liner onto drain bowl and reinstall clamping ring after final coat has cured.

F. **Vents**

1. Cut vents through Securock layer only when needed for vapor drive relief.

G. **Plumbing Stacks**

1. Install lead shield set in a liberal layer of MS2000 under base. Strip in base to flat roof with MS2200 and polyester.

Estimated Material	Specification	Product	Coverage	Min Mils
New Construction/ Retrofit <u>Medium Duty / some ponding water</u>	Primer Joint Tape <u>AD500 D</u>	BT30 or MS2100 <u>DG-4 Butyl Tape</u> <u>MS2100 /</u> <u>MS2200</u>	¼ gal/sq BT30/ ½ gal/sq MS2100 <u>50’ per roll</u> <u>2 gal. / sq. base,</u> <u>2.0 gal. / sq. top</u>	<u>32 mils</u>

Estimated Material	Specification	Product	Coverage	Min Mils
New Construction/ Retrofit- double seamed <u>Heavy Duty / some ponding water</u>	Primer Joint Tape Reinforcement <u>AD500 HD</u>	BT30 or MS2100 under tape <u>DG-2- 2 inch Butyl Tape</u> <u>PF57 6 inch polyester cover</u> <u>MS2100 / MS2200</u>	500 sq. ft. per gal. <u>40’ per sq.</u> <u>40’ per sq.</u> <u>2 gal. / sq. base,</u> <u>2.0 gal. / sq. top</u>	<u>32 mils</u>

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