

Adurel Roofing Specification

Deck Grade Systems over Concrete and Plywood

Use for Pedestrian Grade 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 Reinforcing Mesh

- A. Field and flashing mesh
 - 1. PF57 – a 3.0-oz stitch-bonded polyester for irregular transitions
 - 2. PF45 – a low-profile liner for hiding joints
 - 3. Death Grip – a high tensile low profile butyl tape

2.03 Primers

A. EP50T – water-based concrete primer

2.04 Coatings

- A. U7700 Base – an elastic waterproofing base coat
- B. U7800 Finish – a high-tensile UV stable urethane

2.05 Mixing

- A. Adurel primers and finishes – Mix to uniform consistency
- B. Adurel 2-component urethanes – Mix completely for 5 minutes minimum

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. Equipment required for applying coating
 - 1. Notched neoprene chemical-resistant squeegees. 1/8th notch for 1 gal. / sq., 3/16th notch for 1.5-2 gal. / sq. for hand applications.
 - 2. 9" and 18" chemical-resistant rollers with 3/4" 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 (local source)
 - 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 smoothing joints and spreading coating

2.07 Plywood

- A. Verify plywood conforms to American Plywood Association Standards. Plywood must be exterior grade.
 - 1. For roof decks, refer to APA Design Construction Guide Residential and Commercial: Plywood under Special Coatings.
 - 2. For pedestrian decks, refer to APA data file Installation and Preparation of Plywood Underlayment for Thin Resilient (nontextile) Flooring and Plywood for outdoor decks. Plywood to be coated must not have voids in the inner piles or on the face.

Part 3 – Execution

3.01 Acceptable Installers

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

3.02 Examination

- A. Inspect substrate for compliance and specification tolerances. Record areas that are out of tolerance.
- B. Inspect attachment.

3.03 Surface Preparation

- A. Remove surface contaminants.

3.04 Installation

- A. Install Adurel roofing system per published instructions (see addendum).

3.05 Protection

- A. Provide protection of finished roof from water infiltration before application of metal trim or mechanical units until system has completely cured.

Addendum: Specification AD600

Instruction for installation of Adurel Pedestrian Grade Deck System

A. Cleaning

- 1. Concrete surfaces must be dry, sound, fully cured and free of efflorescence or any contaminants that may interfere with adhesion.
- 2. Plywood surfaces must be free of splinters or contaminants that may interfere with adhesion.

B. Installation of Plywood (for plywood decks only)

- 1. Plywood must be 3/4" tongue and grove pine APA with cross joints blocked to prevent movement from traffic. Rafters must be 16" on center with attachment every 6". Flat head deck screws should be countersunk to deck level. Screws must be non-rusting type. Use 3M scotch-grip adhesive as part of fastening system.
- 2. Deflection of joints is not acceptable. Plywood shall be tongue and groove or all butt joints shall be supported by blocking and all butt joints must have a 1/8" gap filled with 3M Scotch-Grip wood adhesive 5230 and struck flush to adjacent surface.

C. Joint Detail

- 1. Caulk joints or cracks with U909 and strike smooth with the 18" applicator squeegee.

D. Flashings – Butyl Tape

- 1. Prime with BT30 and set in Death Grip reinforcing tape to appropriate size. Detail corners and cuts with U909 mastic and strike smooth.

E. Priming:

- 1. Prime surface and caulk with EP50 T primer @ 200 sq.ft. per gal

F. Application of Finish Coats

- 1. Pour out base and finish coat(s) across the roof and spread out with the notched squeegee applicator tool. Back-roll same area immediately after with 3/4" nap rollers perpendicular to the squeegee pattern.
- 2. Broadcast 12/20 mesh aggregate in second finish coat and back-roll for desired effect. Applications using aggregate broadcast into the finish coat may require weighting of roller for proper distribution.

Estimated Material	Specification	Product	Coverage	Min Mils
Pedestrian Deck Grade On concrete or on plywood	Primer	EP50T	200 sq. ft. / gal. on concrete	32 mils
	Joint caulk	<u>U909 urethane</u>	1 tube/ 2 sq ave	
	Joint Liner	<u>PF45 over joint</u>	40' per sq ave	
	Base Coat	<u>U7700 base</u>	2 coats @ 1.25 gal/sq per coat	
	Finish	<u>U7800 finish</u>	<u>1 coat @ 1 gal/sq*</u>	

If broadcasting sand – broadcast into the wet U7800 @ 1 gal/sq and back-roll for even distribution.

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