

**Adurel Roofing Specification****Split Slab and Membrane Waterproofing****Use between Structural and Wear Course  
Concrete, Pavement, Tile, and Pavers**

Section 0700

**Part 1 – General****1.01 Scope**

- A. To install an Adurel polymer membrane waterproofing.

**1.02 Submittals**

- A. Product Data: Submit schedules, charts, literature, material safety data sheets, and illustrations to indicate the performance, fabrication procedures, product variations, and accessories.
- B. Samples: Submit sample of cured membrane materials including reinforcing where appropriate.
- C. Quality Control: Provide test results from the manufacturer indicating compliance with the specified criteria.
- D. Maintenance Instructions: Provide preprinted maintenance instructions for the roof coating system.
- E. Warranty: Provide a sample of Adurel warranty and the applicator's warranty.

**1.03 Quality Assurance**

- A. Qualifications: Provide factory-trained and authorized installers with a minimum of three years experience installing work similar to the specified work. Submit written evidence of authorization from the manufacturer that the contractor is an approved Adurel applicator.
- B. Pre-Installation Conference: Before starting the work specified herein, a Pre-Installation Conference shall be held to discuss all aspects of the project. The following parties shall be in attendance:
  - 1. Applicator's field representative or roofing foreman
  - 2. Manufacturer's technical representative and affected adjacent trades
  - 3. Owner's representative
- C. Manufacturer's Technical Assistance: Provide a representative to attend the Pre-Installation Conference, and review existing conditions and application procedures at project start-up and periodically during the progression of the project.

**1.04 Code Requirements**

- A. All work including disposal of materials shall be in compliance with applicable local building codes.

**1.05 Delivery and Storage**

- A. Deliver clearly labeled, undamaged materials in the manufacturer's unopened containers.
- B. Deliver materials to allow for minimum storage time at the project site. Coordinate delivery with the scheduled time of installation.
- C. Store materials in a clean dry location, protected from weather and abuse.

**1.06 Site Conditions**

- A. Examination of Existing Conditions: Contractor shall examine existing conditions affecting this work and shall report all unsatisfactory conditions to the proper authority and will not proceed until these conditions have been corrected. Commencing work implies acceptance of existing conditions as satisfactory to the outcome of this work.

**1.07 Warranty**

- A. The manufacturer shall warrant the specified work from the date of completion for the length of the specified warranty against becoming unserviceable from either nonconforming materials or workmanship.
- B. Defects shall include, but not be limited to, the following:
  - 1. Peeling, cracking, blistering, alligatoring, or releasing from the substrata
  - 2. Excessive chalking or dusting
  - 3. Leakage of water into the building or within the construction

**Part 2 – Products****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. Crack reinforcing mesh
  - 1. PF57 – a 3.0-oz. stitch-bonded polyester.
  - 2. PF45 – a low-profile liner for hiding joints

## 2.03 Primers

- A. EP50 T – a two-part solvent-less primer

## 2.04 Coatings and Sealants

- A. U5500 – a high-grade elastomeric urethane
- B. PC750 – higher-tensile membrane for potable water and submersion
- C. U909 – low-modulus elastomeric sealant for cracks and expansion joints

## 2.05 Mixing

- A. Adurel Primers and Finishes – Mix to uniform consistency
- B. Adurel 2-component urethanes – Mix completely for 5 minutes minimum
- C. Mastics – Make onsite mastics with PF2020 at a ratio of 2 parts finish to 1 part fiber for brush grade; 1:1 ratio for trowel grade

## 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. 1/8<sup>th</sup> notch for 1 gal. / sq., 3/16<sup>th</sup> 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 in insulation and spreading coating

## 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.

### 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 completely cured.

## Addendum: Specification AD600 T

### Instructions for installation of Adurel Traffic-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.

#### B. Priming

- 1. Prime concrete or plywood with specified primer as needed.
- 2. EP 50 T – for solvent-less epoxy priming.

**C. Joint Detail**

1. Caulk joints or cracks with U909 low-modulus sealant. Rout joints greater than 1/16" and fill with U909 sealant. Joints exhibiting movement are to be routed, filled with backer rod, flushed with U909, and covered with PF45 or PF57 polyester liner saturated into the base coat. Larger moving joints must have pre-engineered expansion joints integrated into the system.

**D. Flashings**

1. Integrate PF57 polyester into wet base coat to saturation at all wall junctions and termination points.

**E. Application of Finish Coats**

1. Pour out finish coat(s) across the roof and spread out with the notched squeegee applicator tool. Back-roll same area immediately after with a 3/4" nap rollers perpendicular to the squeegee pattern.
2. Broadcast aggregate in second finish coat and back-roll for desired effect.

<b>Estimated Material</b>	<b>Specification</b>	<b>Product</b>	<b>Coverage</b>	<b>Min Mils</b>
<u>Standard Cure</u>	<u>WS505 S</u>	U909 <u>U5500</u>	1 tube / sq. <u>3-5 gal. / sq.</u>	<u>30-50 mils</u>

	<b>Specification</b>	<b>Product</b>	<b>Coverage</b>	<b>Min Mils</b>
<u>Fast Cure and Heavy Duty</u>	<u>WS505 HD</u>	U909 caulk <u>PC750 Finish</u>	<u>3-5 gal. / sq.</u>	<u>30-50 mils</u>

Notes: Polyester liners can be integrated into the wet coating for added stability.

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