

Adurel Roofing Specification

Spillage and Water Containment

Use for Water, Sewage, and
Chemical Spillage Containment

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, alligating, 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.

2.03 Primers

- A. EP 50 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 urethane sealant for cracks under urethane systems
- D. MS2200 – thermoplastic coating for above grade spillage and water
- E. MS2000 – thermoplastic mastic for cracks under the MS2200 finish

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
 - 3. Spray with high-pressure high-volume airless – 2 gpm minimum and 3000 psi recommended or air-assisted gun with airless or air-powered pumps at lower pressure. Material should be worked in by back-rolling the first coat for best results.
- 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) for U909. 32oz Qt cartridge gun for the MS2000.
 - 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)

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 Below-Grade Waterproofing

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 2 part epoxy primer.

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 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 the basecoat to saturation over all transitions and termination points.

E. Application of Finish Coats

1. Apply multiple applications to achieve required mills.

F. Tile Base

1. When applying over concrete block, membrane must be pinhole-free after application.

G. Planters and Gutters

1. Apply multiple coats to achieve requirement millage.

H Spillage Containment – exposed to sunlight

1. Apply multiple coats to required millage.

I Wastewater Containment

1. Allow 24 hours minimum cure.

Gutters, Planters, Tile Base	Specification	Product	Coverage	Min Mils
<u>Standard Cure</u>	<u>WS606 C</u>	EP50 T primer U909 <u>U5500</u>	1/2 gal/sq As needed <u>3-5 gal. / sq.</u>	<u>30-50</u> <u>mils</u>

Sewage and Water	Specification	Product	Coverage	Min Mils
<u>Fast Cure and Heavy Duty</u>	<u>WS606 SP</u>	EP50 T primer U909 caulk <u>PC750 Finish</u>	1/2 gal/sq as needed <u>4-5 gal. / sq.</u>	<u>40-50</u> <u>mils</u>

Spillage Containment	Specification	Product	Coverage	Min Mils
<u>Acids, bases and water –exposed to sunlight – spillage</u>	<u>WS606 HO</u>	BT30 primer MS2000 caulk <u>MS2200</u>	1/2 gal/sq as needed 2 coats @ 2 gal/sq	<u>30 mils</u>

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