

**SECTION 07 13 00  
SHEET WATERPROOFING**

**PART 1 - GENERAL**

**1.1 DESCRIPTION:**

This section specifies sheet waterproofing materials used for shower pan waterproofing in personnel showers.

**1.2 QUALITY CONTROL:**

Approval by the COR is required of products of proposed manufacturers.

**1.3 SUBMITTALS:**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Manufacturer's Literature and Data:
  - 1. Sheet waterproofing.
  - 2. Printed installation instructions.
- C. Certificates:
  - 1. Sheet waterproofing manufacturer's approval of adhesive used.
  - 2. Waterproofing tests report indicating that water test as specified has been made for each shower area and that each area was found to be watertight.
- D. Samples:
  - 1. Sheet waterproofing, 150 mm (6 inches) square.
  - 2. Waterproofed building paper, 150 mm<sup>2</sup> (6 inches square).
  - 3. Adhesive, 0.24 L (1/2 pint).

**1.4 PRODUCT DELIVERY, STORAGE AND HANDLING:**

- A. Deliver materials to job in manufacturer's original unopened containers with brand name marked thereon.
- B. Unload and store to prevent injury to materials.
- C. Do not store material in areas where the temperature is lower than 10°C (50°F), or where prolonged temperature is above 32°C (90°F).

**1.5 WARRANTY**

Shower pan waterproofing is subject to the terms of Article titled "Warranty of Construction", FAR clause 52.246-21, except that warranty period is extended to two years.

**1.6 APPLICABLE PUBLICATIONS:**

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced by basic designation only.
- B. Federal Specification (Fed. Spec.):

UU-B-790A INT AMD.....Building Paper, Vegetable Fiber: (Kraft,  
Waterproof, Water Repellent ad Fire Resistant)

**PART 2 - PRODUCTS**

**2.1 SHOWER PAN WATERPROOFING SHEET:**

- A. Rubber type sheet formed of non-reinforced, homogeneous, impermeable, sheeting compound reduced to thermoplastic state, resistant to fungus, mildew, and bacteria, not less than 1.5 mm (60 mils) thick.
- B. Asphaltic sheet formed with a laminated asphalt construction consisting of eight plies of Kraft paper bonded and saturated by seven layers of asphalt, reinforced with three layers of glass fibers, and faced with polyethylene sheet: total weight 1.9 kg/m<sup>2</sup> (0.40 pounds per square foot).

**2.2 ADHESIVES:**

- A. As furnished by the manufacturer of the sheet waterproofing.
- B. Compatible with adjacent materials where contact occurs.

**2.3 WATERPROOFED BUILDING PAPER:**

Fed. Spec. UU-B-790, Type I, Grade C.

**2.4 CONCRETE PATCHING COMPOUND:**

- A. Portland cement base, acrylic polymer compound, manufactured specifically for resurfacing and leveling concrete floors.
- B. Have not less than the following physical properties:
  - 1. Compressive strength - 25 mPa (3500 psi).
  - 2. Tensile strength - 7 mPa (1000 psi).
  - 3. Flexural strength - 7 mPa (1000 psi).
  - 4. Density - 1.9.
- C. Capable of being applied in layers up to 50 mm (two inches) thick, being brought to a feather edge, and being troweled to a smooth finish.
- D. Ready for use in 48 hours after application.

**PART 3 - EXECUTION**

**3.1 PREPARATION:**

- A. Before installing shower pan waterproofing, adjoining surfaces shall be clean, smooth, firm, and dry.
- B. Concrete surfaces shall be cured for a minimum of seven days and be free from release agents, concrete curing agents, and other contaminants.
- C. Remove all high spots and loose and foreign particles and fill all voids, depressions joints and cracks with concrete patching compound.

- D. Ensure vertical surfaces have a continuous supportive back substrate for waterproofing.

**3.2 INSTALLATION:**

- A. Coat entire surfaces to receive shower pan waterproofing with adhesive spread at rate of 1 L/m<sup>2</sup> (one gallon per 40 square feet).
- B. Butt joints and cover with a strip of the waterproofing sheeting material eight inches in width and seal with adhesive.
- C. Carry sheeting up vertical surfaces not less than 4 inches above surface of shower floor. Carry over tops of curbs.
- D. Roll entire horizontal surfaces with 23 to 45 kg (50 to 100 pounds) roller and roll corners and vertical sections with a rubber roller to insure solid anchorage.
- E. Make cut out for floor drains and fit to drain for watertight assembly, coordinating with drain installation.

**3.3 PROTECTION:**

- A. When the finished floor will not be immediately installed, protect waterproofing pan.
- B. Cover with 2 inches of sand or waterproof building paper.
- C. Maintain protection until the finished floor is placed.

**3.4 WATER TEST:**

- A. Test in presence of COR for leaks before permanent finish is applied over shower pan waterproofing.
- B. Seal floors drain watertight and fill waterproofing pan with water to within approximately 25 mm (1 inch) of top of its vertical surfaces.
- C. When leakage occurs, repair waterproofing and repeat testing until no leakage occurs.
- D. Submit certificate to COR of test results.

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