

# Section 530—Waterproofing Fabrics

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## 530.1 General Description

This work consists of waterproofing concrete and other masonry surfaces by preparing and applying a composite waterproofing membrane at locations shown on the Plans.

### 530.1.01 Definitions

General Provisions 101 through 150.

### 530.1.02 Related References

#### A. Standard Specifications

[Section 500—Concrete Structures](#)

#### B. Referenced Documents

General Provisions 101 through 150.

### 530.1.03 Submittals

General Provisions 101 through 150.

## 530.2 Materials

Ensure that materials meet the requirements of the following Specifications:

Material	Section
Waterproofing Membrane Material	<a href="#">888.2.03</a>
Mortar	<a href="#">834.2.03</a>

For a list of waterproofing membrane sources, see [QPL 22](#).

### 530.2.01 Delivery, Storage, and Handling

General Provisions 101 through 150.

## 530.3 Construction Requirements

### 530.3.01 Personnel

General Provisions 101 through 150.

### 530.3.02 Equipment

General Provisions 101 through 150.

### 530.3.03 Preparation

#### A. Prepare the Concrete

Prime the concrete and apply the membrane only under the following conditions:

- Air and concrete temperatures are above 40 °F (4 °C).
- All surfaces are thoroughly dry.
- Concrete is at least 14 days old.

Prepare the concrete as follows:

1. Fill all hole cracks and depressions in the concrete surface flush with mortar composed of one part Portland cement and two parts approved sand and cure according to [Subsection 500.3.05.Z, “Cure Concrete.”](#)

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The Contractor may use approved, commercially produced, fast setting, no sag grouts to expedite the work.

2. Chip or grind smooth all high spots, sharp points, and edges.
3. Thoroughly clean and dry the concrete surface.

### **B. Prime the Concrete**

Prime all areas that will receive membrane and allow the areas to cure according to the manufacturer's recommendations or as directed by the Engineer.

Areas not covered with membrane in 24 hours must be reprimed.

### **530.3.04 Fabrication**

General Provisions 101 through 150.

### **530.3.05 Construction**

#### **A. Seal Openings and Structure Edges**

At openings for drains and pipes and at the edges of structures, construct a seal to prevent water from passing between the waterproofing and the surface that it overlays.

Apply a manufacturer-recommended edge seal to any area of the membrane permanently exposed to sunlight.

#### **B. Waterproof Joints**

Joints require a double thickness of waterproofing membrane over properly sealed expansion, construction, or control joints.

Pre-strip the joint with a 12 in. (300 mm) wide membrane before applying the main waterproofing. The surface of this pre-strip does not need priming.

#### **C. Seal Seams**

Edge and end seams must overlap at least 4 in (100 mm) on all applications.

#### **D. Apply Membrane**

Apply the membrane as follows:

Rub the entire membrane firmly and completely as soon as possible to minimize bubbles caused by air outgassing or water vapor from the concrete.

Slit all fish mouths, overlap the flaps and repair with a patch pressed or rolled to make the seal. Seal the edges with mastic.

Patch misaligned or inadequately lapped seams with the membrane.

#### **E. Protect Membrane**

When necessary, use a manufacturer-approved protection system to protect waterproofing membranes from damage caused by backfill material or other construction activities.

#### **F. Repair Membrane**

As soon as possible, patch all tears and inadequately lapped seams with waterproofing membrane.

Slit fish mouths and repair with a patch extending 8 in (200 mm) in all directions from the slit and seal the edges of the patch with mastic.

### **530.3.06 Quality Acceptance**

General Provisions 101 through 150.

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**530.3.07 Contractor Warranty and Maintenance**

General Provisions 101 through 150.

**530.4 Measurement**

This work will be measured for payment in square yards (meters) of accepted waterproofing.

**530.4.01 Limits**

General Provisions 101 through 150.

**530.5 Payment**

This work will be paid for at the Contract Price per square yard (meter) for waterproofing complete in place.

Payment will be made under:

Item No. 530	Waterproofing	Per square yard (meter)
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**530.5.01 Adjustments**

General Provisions 101 through 150.