

# ULTRASEAL® XP

## ACTIVE POLYMER WATERPROOFING MEMBRANE

### DESCRIPTION

ULTRASEAL XP features XP technology, the latest innovation in active waterproofing. This advanced polymer technology provides exceptional performance in a wide range of ground contaminates, including high-saline conditions. Unlike passive membranes when used alone, the self-sealing ability of the active XP technology enables the ULTRASEAL XP waterproofing membrane to seal minor cuts or damage to the membrane. Most importantly, it has been proven effective in both hydrostatic and nonhydrostatic conditions.

ULTRASEAL XP works by forming a low permeability membrane upon contact with water. When hydrated, the unconfined membrane can swell many times its dry volume. When confined by backfill or concrete the swell is controlled, forming a dense, impervious waterproofing membrane. This swelling action also self-seals small concrete cracks caused by

ground settlement and concrete shrinkage. When concrete is poured against the XP geotextile side, ULTRASEAL XP forms a strong mechanical bond. It contains zero VOCs, and can be installed in almost any weather condition directly to green concrete.

### APPLICATIONS

The ULTRASEAL XP waterproofing system is intended to provide waterproofing protection for structural concrete surfaces under continuous or intermittent hydrostatic pressure; including high-saline and contaminated environments. Below-grade applications include backfilled cast-in-place concrete and property line shoring walls such as soldier pile and lagging. The membrane can be continued under the floor slab to provide a continuous, uniform waterproofing system. ULTRASEAL XP applications include: Foundation walls, Earth-Covered Structures, Under Slab, and Tunnels. Please consult CETCO regarding specific ground contaminates.

### INSTALLATION

**General:** Install ULTRASEAL XP Waterproofing System in strict accordance with the manufacturer's installation guidelines and details using accessory products, protection and drainage layers, and overburden as specified or required. Install ULTRASEAL XP with the XP geotextile side directly in contact with the concrete to be waterproofed.

### SIZE AND PACKAGING

ULTRASEAL XP is available in 1.15m wide x 8.7m long for 10sqm per roll (107 SF roll). 30 rolls per pallet.

| TECHNICAL DATA                                       |                   |                               |
|--|-------------------|-------------------------------|
| PROPERTY   | TEST METHOD       | TYPICAL VALUE                 |
| Hydrostatic Pressure Resistance (min 1 hr @ 100 psi) | ASTM D 5385       | 70m (231 ft)                  |
| Elongation   | ASTM D 4632       | 50%                           |
| Peel Adhesion to Concrete                            | ASTM D 903 (Mod.) | 10 lbs/in                     |
| Puncture Resistance                                  | ASTM D 4833       | 70 lbs                        |
| Low Temperature Flexibility                          | ASTM D1970        | Unaffected at -25° F (-32° C) |
| Grab Tensile Strength                                | ASTM D 4632       | 130 lbs                       |
| Permeability   | ASTM D 5084       | <1 x 10 <sup>-11</sup> cm/sec |

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