

# 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. And most importantly, it has been proven effective in both hydrostatic and non-hydrostatic 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 can seal 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 ground applications include backfilled cast-in-place concrete and property line construction such as contiguous/secant piling and steel sheet piling. 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 two roll sizes; 1.15 m x 8.7 m (10 sqm) and 2.2 m x 9.1 m (20 sqm).

### TECHNICAL DATA

PROPERTY	TEST METHOD	TYPICAL VALUE
Hydrostatic Pressure Resistance	ASTM D5385 (Mod.)	70 m
Elongation at Break	EN ISO 527	25%
Peel Adhesion to Concrete	ASTM D903 (Mod.)	1,7 kN/m
Puncture Resistance	EN ISO 12236	3,0 kN
Low Temperature Flexibility	ASTM D1970	Unaffected at -32°C
Tensile Strength	EN ISO 527	8,0 N/mm <sup>2</sup>

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