

ULTRASEAL® XL

ACTIVE POLYMER WATERPROOFING MEMBRANE

DESCRIPTION

ULTRASEAL® XL is a cost effective active polymer waterproofing membrane. This advanced polymer technology provides high performance in a wide range of ground contaminates, including saline conditions. Unlike passive membranes when used alone, the self-sealing ability of the active XL technology enables the ULTRASEAL XL 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 XL 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 XL geotextile side, ULTRASEAL XL 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 XL 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 XL applications include: foundation walls, earth-covered structures, under slab, and tunnels. Please consult CETCO regarding specific ground contaminates.

INSTALLATION

General: Install ULTRASEAL XL 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 XL with the XL geotextile side directly in contact with the concrete to be waterproofed.

SIZE AND PACKAGING

ULTRASEAL XL is available in standard roll sizes:

- 1.15 m x 8.7 m (10 sqm);
- 2.3 m x 8.7 m (20 sqm);
- 2.3 m x 35 m (80.5 sqm).

TECHNICAL DATA

PROPERTY	TEST METHOD	TYPICAL VALUE
Hydrostatic Pressure Resistance	ASTM D5385 (Mod.)	70 m
Elongation at Break	EN ISO 527	Typical 10%
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/mm²
Total Mass	EN ISO 9864	typical 1,0 kg/m²



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EN 13491:2004 + EN 13491:2004/A1:2006
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