COREFLEX XP

THERMOPLASTIC WATERPROOFING MEMBRANE WITH XP TECHNOLOGY CORE

DESCRIPTION

COREFLEX XP is a 1.5 mm nominal thermoplastic membrane reinforced with a 90 gram/sqm polyester reinforcing scrim integrally bonded to an XP Technology Core. COREFLEX XP offers the ultimate in waterproofing barrier protection featuring XP technology, the latest innovation in active waterproofing. This advanced polymer technology provides exceptional performance in a wide range of ground contaminates, including high-salinity conditions. The barrier performance starts with a thermoplastic membrane with welded seams providing a monolithic watertight barrier layer. The thermoplastic membrane is reinforced with a polyester reinforcing scrim and is produced with DuPont's Elvaloy-KEE® (Keytone Ethylene Ester), a solid phase high molecular weight ethylene interpolymer.

Unlike traditional liquid PVC plasticizers, the Elvaloy-KEE® does not experience phase separation and migrate out; thus the membrane properties are maintained for long term performance. Elvaloy-KEE® also provides superior chemical resistance properties. The XP Technology Core layer is integrally bonded to the Elvaloy-KEE® thermoplastic membrane. The XP layer is designed to activate with water to swell and form a positive seal. Thereby, at any unforeseen puncture or installation defect, the XP layer reacts at the breach, self-sealing to stop the water ingress. COREFLEX XP is the only welded thermoplastic membrane composite with this reactive, self-sealing XP technology feature.

APPLICATIONS

The COREFLEX XP waterproofing system provides waterproofing protection for structural concrete surfaces. Below-ground applications include backfilled cast-in-place concrete and masonry block foundation walls as well as property line shoring walls such as soldier pile and lagging. The membrane can be continued under the floor slab and up onto a horizontal deck to provide a continuous, uniform waterproofing system. COREFLEX XP can be used to waterproof structures under continuous or intermittent hydrostatic pressure. COREFLEX XP applications include: Plaza Decks, Split-Slab Deck Construction, Foundation Walls, Earth-Covered Structures, Property Line Construction, Under Slab, Tunnels and Greenroofs.

INSTALLATION

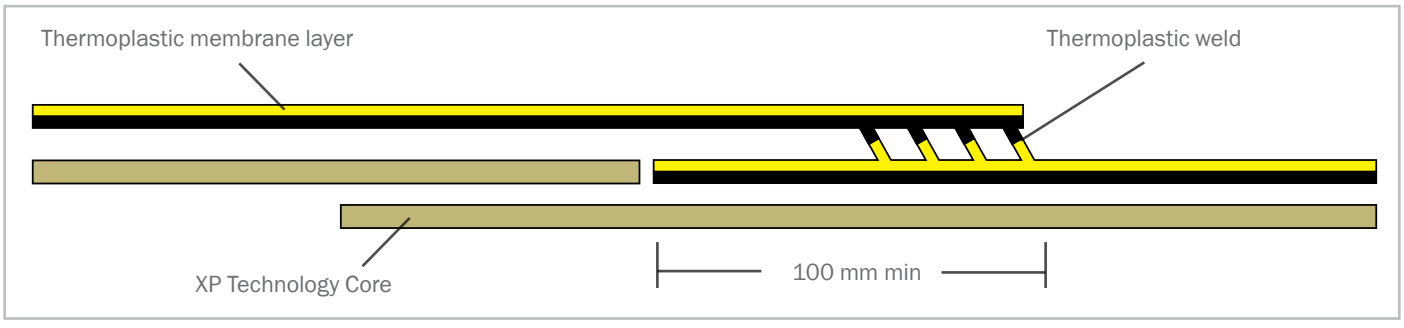
General: Install COREFLEX XP Waterproofing System in strict accordance with the manufacturer's installation guidelines and details using accessory products, protection and drainage layers, and overburden as specified or required. Install COREFLEX XP with the XP geotextile side directly in contact with the concrete to be waterproofed. WATERSTOP-XP should be installed in all applicable horizontal and vertical construction joints and around penetrations.

PACKAGING

COREFLEX XP is available in 1.7 m x 12.9 m rolls; 1.55 m wide thermoplastic membrane with XP Technology Core offset by 150 mm along the long roll edge.

QUALITY ASSURANCE PROGRAM

Rely on quality waterproofing products and the HydroShield™ Quality Assurance Program from CETCO. This program is designed to protect your building and its contents from water leaks through pre-installation planning, experienced craftsmanship, and onsite inspection backed by the strongest warranty in the industry. If it's worth building, it's worth protecting.



Typical COREFLEX XP membrane overlap assembly with continuous thermoplastic weld

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TECHNICAL DATA		
PROPERTY	TEST METHOD	TEST RESULTS
VISIBLE DEFECTS	EN 1850-2	PASS
WATER TIGHTNESS TO LIQUID WATER	EN 1928	WATERPROOF
EXTERNAL FIRE PERFORMANCE	EN 13501-5	Broof (T1)
REACTION TO FIRE	EN 13501-1	Class E
PEEL RESISTANCE OF JOINT	EN 12316-2	≥ 300 N / 50 mm
JOINT STRENGTH	EN 12317-2	≥ 900 N / 50 mm
TENSILE STRENGTH	EN 12311-2	≥ 1000 N / 50 mm
ELONGATION AT BREAK	EN 12311-2	≥ 60%
IMPACT RESISTANCE	EN 12691	≥ 1000 mm
RESISTANCE TO STATIC LOADING	EN 12730	≥ 20 kg
TEAR RESISTANCE	EN 12310-2	≥ 200 N
RESISTANCE TO ROOT PENETRATION	EN 13948	RESISTANT
DIMENSIONAL STABILITY	EN 1107-2	≤ 1%
FOLDABILITY AT LOW TEMPERATURE	EN 495-5	≤ –50°C
UV EXPOSURE (1000 h)	EN 1297	RESISTANT
EFFECTS OF LIQUID CHEMICALS, INCLUDING WATER (28 DAYS / 23°C)	EN 1847	RESISTANT
HAIL RESISTANCE	EN 13583	≥ 17 m/s
DETERMINATION OF WATER VAPOUR TRANSMISSION	EN 1931	≥ 18.000 μ (+ 30%)

UPDATED: SEPTEMBER 2017

FORM: TDS_COREFLEX_XP_EMEA_EN_201709_V3