

COREFLEX® 60-54W

THERMOPLASTIC WATERPROOFING MEMBRANE WITH ACTIVE POLYMER CORE

DESCRIPTION

COREFLEX 60-54W is a 1.5 mm (60 mil) nominal thermoplastic membrane reinforced with a polyester fabric and integrally bonded to an Active Polymer Core (APC). COREFLEX 60-54W offers the ultimate in waterproofing barrier protection technology. The barrier performance starts with a thermoplastic membrane with welded seams providing a monolithic watertight barrier layer. The thermoplastic membrane is reinforced with a weft inserted knit polyester reinforcement fabric 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 Active Polymer Core layer is integrally bonded to the Elvaloy-KEE thermoplastic membrane. The APC layer is designed to activate with water to swell and form a positive seal. Thereby, at any unforeseen puncture or installation defect, the APC layer reacts at the breach, self-sealing to stop the water ingress. COREFLEX 60-54W is the only welded thermoplastic membrane composite with this reactive, self-sealing performance feature.

APPLICATIONS

The COREFLEX 60-54W waterproofing system provides waterproofing protection for structural concrete surfaces. Below grade applications include backfilled cast-in-place concrete and masonry block foundation walls as well as plaza deck waterproofing conditions. The membrane can be continued under the floor slab and up onto a horizontal deck to provide a continuous, uniform waterproofing system. COREFLEX 60-54W can be used to waterproof structures under continuous or intermittent hydrostatic pressure. COREFLEX 60-54W applications include: Plaza Decks, Split-Slab Deck Construction, Foundation Walls, Earth-Covered Structures, Tunnels and Greenroofs.

INSTALLATION

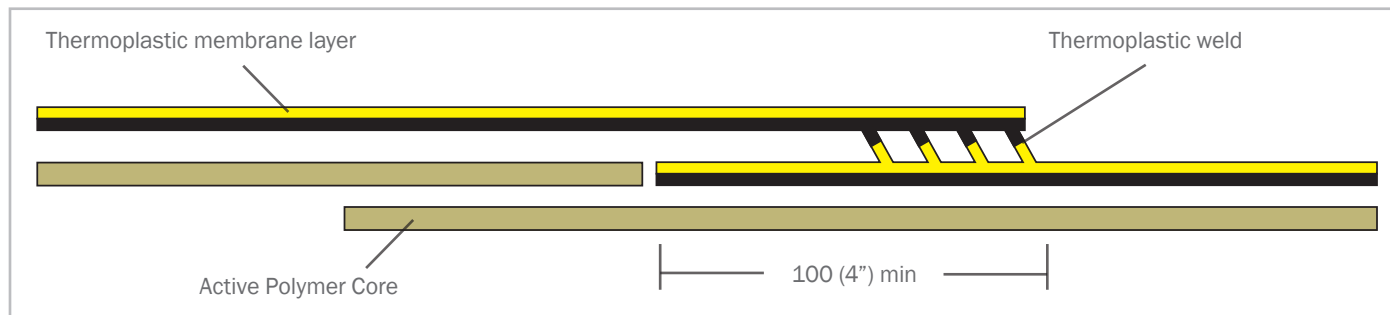
General: Install COREFLEX 60-54W Waterproofing System in strict accordance with the manufacturer's installation guidelines and details using accessory products, protection and drainage layers, and overburden as specified or required. Install COREFLEX 60-54W with the grey APC geotextile side directly in contact with the concrete to be waterproofed. Division 3 Concrete Work should include WATERSTOP-RX® installed in all applicable horizontal and vertical concrete construction joints and around penetrations.

PACKAGING

COREFLEX 60-54W is available in 1.4 m x 15 m (54" x 50') rolls; 54" wide thermoplastic membrane with APC layer offset by 150 mm (6") 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® 60-54W membrane overlap assembly with continuous thermoplastic weld

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TECHNICAL DATA		
PROPERTY	TEST METHOD	TYPICAL VALUE
Membrane Composite Thickness	ASTM D751	3.8 mm (150 mil)
Hydrostatic Pressure Resistance (min 1 hr @ 100 psi)	ASTM D5385	70 m (231 ft)
Puncture Resistance	ASTM D4833	996 N (224 lbs)
Tensile Strength ASTM D751	ASTM D751	2,442 N (549 lbs)
Bonded Seam Strength	ASTM D751	3,136 N (705 lbs)
Peel Adhesion to Concrete	ASTM D903 (mod)	1,751 N/m (10 lbs/in)
Methane Permeability	ASTM D1434	25 mL (STP)/m ² /day
Oil Resistance	ASTM D543	Passed
Microorganism Resistance	ASTM D4068-88	Passed
Enviromental Stress Cracking	ASTM D1693	Passed
Hydrostatic Resistance (Procedure A)	ASTM D751	754 psi (5.2 mPa)
Water Vapor Retarder	ASTM E1745	Class A
Water Vapor Transmission	ASTM E96	0.1 perms (0.036 gr/m/hr)
Tensile Strength	ASTM E154	68 kN/m (387 lbf/in)
Puncture Resistance	ASTM D1709	5,500 grams (12.0 lbs)

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