



DATA SHEET NO. 5124-000

WATERSTOP EC

DESCRIPTION

WATERSTOP EC is a multilayered, bentonite-based waterstop for construction joints. The self-sealing properties of bentonite are encased within a hydration-resistant core providing both extreme free swell properties as well as delayed swell properties. The multilayered structure with polypropylene fabric and strong tear-resistant netting provides for additional strength and structure. WATERSTOP EC will provide superior performance over the life expectancy of the structure.

USES

WATERSTOP EC is used to seal non-moving construction joints in concrete footings, walls, floors, tunnels, and parking and plaza decks and to prevent water migration. The product can also be used around pipes and other types of penetrations. WATERSTOP EC has superior performance when used under conditions of extreme water head.

FEATURES/BENEFITS

- Provides both extreme free swell properties as well as delayed swell properties.
- Provides additional strength and structure.
- Provides superior performance over the life expectancy of the structure.
- High expansion properties seals open areas in concrete surface.

PACKAGING

Standard rolls sizes:

12.7 mm x 25.4 mm x 4.6 m (1/2" x 1" x 15')

19.1 mm x 25.4 mm x 4.6 m (3/4" x 1" x 15')

STORAGE AND HANDLING

Protect from moisture. Store on skid or pallet; cover with polyethylene or tarp.

APPLICATION

Surface Preparation ... Ensure that surface is free from protrusions and debris. If there are voids in the surface, fill with CLAY-TITE MASTIC from W. R. MEADOWS prior to installation of waterstop.

Application Method ... WATERSTOP EC is designed for use on vertical and horizontal construction joints with a minimum of 50.8 mm (2") of containment. CLAY-TITE MASTIC will fill voids in rough concrete and provide additional adhesion to the concrete while preventing water or concrete from seeping under WATERSTOP EC. If surface is troweled smooth, lay a 3.2 - 6.4 mm (1/8" - 1/4") bead of CLAY-TITE MASTIC along the joint. Surfaces to receive the waterstop cannot have protrusions greater than 12.7 mm (1/2"). Press WATERSTOP EC into uncured CLAY-TITE MASTIC and nail every 381 mm (15") on center. Attach WATERSTOP EC with a washer nail [25.4 mm (1") shank] with washer [15 - 23 mm (5/8" - 13/16")]. Butt ends for a continuous application.

PRECAUTIONS

Keep WATERSTOP EC dry; protect from exposure to the elements. WATERSTOP EC should be installed at least 2" (50.8 mm) from the face of the concrete. In areas of high salt concentration, a water sample may be required to determine site suitability for installation.

MASTERFORMAT NUMBER AND TITLE

03 15 13 - Concrete Accessories - Waterstops

LEED INFORMATION

May help contribute to LEED credits:

- MRc9: Construction and Demolition Waste Management

Continued over ...

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Property	Test Method	WATERSTOP EC Results
Weight		0.4 kg/m (0.25 lb./linear foot)
Tear Strength: Membrane	ASTM D1004	12.7 mm (1/2"): 333 N (75 lb.) 19.1 mm (3/4"): 500 N (112 lb.)
% Elongation at Break	ASTM D638	>150%
Unrestricted Expansion		300% over 4 days
Installation Temperatures	ASTM D746	-25° to 50° C
Freeze/Thaw Cycles		No effect before or after installation.
Resistance to Hydrostatic Head	ASTM D751, Procedure A	30 m (100') of water
Vapor Permeability	ASTM D5084	1 x 10 ⁻⁹ cm per sec

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