

DATA SHEET

Product Description

WATCHDOG + Energy protects new basements against water leaks while increasing their energy efficiency. It starts with the flexible WATCHDOG WATERPROOFING membrane that delivers reliable, leak-free protection year-round. Then a rigid fiberglass insulation board is added to insulate basement walls from energy loss, reduce interior condensation, protect the membrane and assist drainage.

Insulation Board Performance

WATCHDOG + Energy's insulation board keeps foundation wall temperatures closer to the air temperature of the basement, which helps reduce condensation. The insulation board also helps reduce the risk of damage due to freeze/thaw cycles, particularly if the insulation board is extended to the sill plate. The compressibility of the insulation board will also absorb moderate soil expansion and help protect the basement wall.

Model Energy Code

Computer analysis of home energy use shows that a considerable portion of a typical home's energy loss comes from heated, uninsulated basements. By installing WATCHDOG + Energy's insulation board to the sill plate, the entire basement wall is insulated, and energy efficiency is maximized. Many states have adopted energy codes that require basement insulation. WATCHDOG + Energy provides insulating performance and assists with compliance to these codes.

Availability

WATCHDOG + Energy is available through your local Tremco Select Contractor.

Curing and Backfilling

Foundations coated with WATCHDOG + Energy should be allowed to cure at least 16 to 24 hours, or longer if ambient temperatures are below 45°F and/or if humidity is 80% RH or above – before backfilling. Use clean fill materials for backfilling, avoiding any sharp or angular materials that may puncture the insulation board.

Drainage Requirements

WATCHDOG + Energy is designed for use with a positive, functioning perimeter drainage system that meets or exceeds local codes and good construction practices. One perimeter drainage system that works well with WATCHDOG + Energy consists of 3-inch minimum perforated drainage pipe – with gravel over the pipe, on the footer and at least 10 inches up the face of the insulation board. The drain tile should channel water to either an operating sump pump or to daylight. The grade should always slope away from the foundation.

Environmentally Responsible

WATCHDOG + Energy's membrane uses a non-flammable, water-based carrier that meets VOC regulations in all 50 U.S. states. It has been thoroughly tested by independent labs using Federal EPA standards for leaching. The results prove that no harmful leaching of the membrane occurs.

Warranty

Tremco warrants its Products to be free of defects in materials but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed or implied including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to Tremco Products. Tremco's sole obligation shall be, at its option, to replace or refund the purchase price of the quantity of Tremco Products proven to be defective, and Tremco shall not be liable for any loss or damage.

Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.

NOTE: All Tremco Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.

TYPICAL PHYSICAL PROPERTIES - MEMBRANE PROPERTIES

PROPERTY	DESCRIPTION	
TYPE	Polymer-enhanced asphalt liquid-applied membrane	
COLOR	Black	
SOLIDS	64% ± 3% [percent by weight]	
DENSITY	8.2 + .15 lbs/gal	
APPLICATION	Airless spray	
APPLICATION TEMPERATURE	Minimum 20°F ¹	
APPLICATION THICKNESS	60 mils (wet) ²	
TYPICAL CURE TIME	16-24 hrs [under normal conditions]	
PROPERTY	TEST METHOD	TYPICAL RESULTS
RESISTANCE TO HYDROSTATIC HEAD	ASTM D-5385	3' of water
ADHESION TO CONCRETE	ASTM C-836	Exceeds
ELONGATION	ASTM D-412	>1700%
CRACK BRIDGING ABILITY	ICC-ES AC29, Sec 3.1	Passes
WATER VAPOR PERMEANCE	ASTM E-96 Wet Method	<1 perm for 40-mil dry coating [grains/sf/hr]
RESISTANCE TO DEGRADATION IN SOIL	ASTM E-154	Good
MOLD GROWTH AND BACTERIAL ATTACK	ASTM D-3273, ASTM D-3274	No degradation

¹ May be applied at lower temperature by following procedure for Cold Weather Application in Application Instructions.

² Measured in-place with ASTM D-4414 notch film gauge, wetting the 60 mil tab. Membrane cures [dries] to 40 mils.

TYPICAL PHYSICAL PROPERTIES - BOARD PROPERTIES

PROPERTY	DESCRIPTION
APPEARANCE	Yellow unfaced glass board
THERMAL RESISTANCE	1 3/16" R5 2 3/8" R10
FIBERGLASS BOARDS COMPLY WITH ASTM C 612	

0220/WD+EDS

Please refer to our website at www.tremcosealants.com for the most up-to-date Data Sheet.

Tremco Construction Products Group

3735 Green Rd
Beachwood OH 44122
800.876.5624

1451 Jacobson Ave
Ashland OH 44805
419.289.2050 / 800.321.6357

220 Wicksteed Ave
Toronto ON M4H1G7
416.421.3300 / 800.363.3213

1445 Rue de Coulomb
Boucherville QC J4B 7L8
514.521.9555