

# ENVIROSHEET

## SHEET MEMBRANE WATERPROOFING

### DESCRIPTION

ENVIROSHEET is a self-adhering waterproofing sheet membrane consisting of 56 mils (1.4mm) of rubberized asphalt integrally bonded to a 4 mil (0.1mm) cross-laminated, high-density polyethylene film. These two components combine to offer an extremely effective waterproofing barrier and the factory controlled thickness assures uniform application.

ENVIROSHEET is supplied in 914 mm (36") wide by 20.3 m (66.7') long rolls. The rubberized asphalt is covered with a siliconized release paper which is removed during installation. The membrane is self-adhering and cold-applied. No special equipment or adhesives are necessary to form laps.

ENVIROSHEET requires accessory products for surface conditioning and detailing, such as penetrations, corners, and terminations. Use only accessory products supplied by the manufacturer.

### APPLICATIONS

ENVIROSHEET is ideal for waterproofing structural concrete, masonry and wood surfaces where the inservice temperatures will not exceed 54°C (130°F). ENVIROSHEET can be applied to foundation walls, tunnels, and earth sheltered structures. It also is used in split-slab construction, both above and below grade, such as plaza areas, balconies and parking decks. Interior uses include mechanical rooms, kitchens, bathrooms, and laboratories.

ENVIROSHEET should not be used where it will be permanently exposed to sunlight. Do not use ENVIROSHEET as a traffic wearing surface.

### INSTALLATION

ENVIROSHEET waterproofing membrane should be applied when ambient and surface temperatures are 10°C (50°F) and above.

Surfaces to receive the membrane must be smooth, dry and free of dirt, dust, loose aggregate, form release agents or other foreign material. Concrete surfaces must be cured for a minimum of 7 days (14 days for lightweight structural concrete). If concrete is placed over non-vented metal pan deck, double the curing time. Use form release agents which will not transfer. Cure concrete with clear, resin-based curing compound containing no oil, wax or pigment.

Properly prepare substrate and prime all surfaces to receive membrane with Enviroprimer before applying membrane. For horizontal surfaces, the membrane is applied to primed surface starting at the low point. Apply successive sheets of membrane overlapping preceding ones by 65mm (2-1/2"). For vertical surfaces, the membrane is applied in sections of 2.4m (8') length or less. On walls over 2.4m (8') high, the membrane can be applied in two or more sections with the upper section overlapping the lower section a minimum 65mm (2-1/2"). For both horizontal and vertical applications, roll all of the membrane as soon as possible to maximize adhesion. Inspect the membrane thoroughly and make any necessary repairs prior to covering. Protect from construction traffic and damage promptly after installation.

For complete application instructions, including detail treatments and substrate preparation, refer to the ENVIROSHEET Product Manual.

### LIMITATIONS

ENVIROSHEET is not recommended in areas where the membrane will be subject to permanent exposure to sunlight. Do not apply primer or membrane to damp, frosty or frozen surfaces. ENVIROSHEET is not recommended for use as a pond or tank liner except with "between slab" applications. Do not install over fresh coal tar products or sealants containing polysulfides. ENVIROSHEET membrane is not intended to provide the primary waterproofing for expansion joints. ENVIROSHEET is capable of bridging 1.5 mm (1/16") cracks.

### PACKAGING

Each roll of ENVIROSHEET is individually packaged in a strong corrugated box. Pallet contains 25 rolls. Do not double stack pallets.

|             |                         |
|-------------|-------------------------|
| Roll Width  | 914 mm (36 in.)         |
| Roll Length | 20.3 m (66.7 ft.)       |
| Roll Area   | 18.6 sq m (200 sq. ft.) |
| Roll Weight | 36.3 kg (80 lbs.)       |

## ENVIROSHEET SHEET MEMBRANE WATERPROOFING

| TECHNICAL DATA                |                     |                                                          |
|-------------------------------|---------------------|----------------------------------------------------------|
| TYPICAL PROPERTIES            | TEST METHOD         | TYPICAL VALUE                                            |
| Color                         | n/a                 | Dark Gray-Black                                          |
| Thickness                     | n/a                 | 1.5 mm (60 Mils)                                         |
| Hydrostatic Head Resistance   | ASTM D 5385         | 70 m (231 ft. )                                          |
| Tensile Strength, Membrane    | ASTM D 412 (C) Mod. | 2240 kP <sub>2</sub> (325 lbs./in <sup>2</sup> ) Minimum |
| Tensile Strength, Film        | ASTM D 412          | 34.5 MPa (5000 lbs./in <sup>2</sup> ) Minimum            |
| Elongation                    | ASTM D 412 (C) Mod. | 300%*                                                    |
| Water Vapor Transmission      | ASTM E 96 (B)       | 0.05 perms (grains/sq.ft./hr./in. Hg)                    |
| Low Temperature Flexibility   | ASTM D 1970         | Unaffected at -29°C (-20°F)                              |
| Crack Cycling (100 Cycles)    | ASTM C 836          | Unaffected at -32°C (-25°F)                              |
| Peel Strength                 | ASTM D 903          | 1.8kN/m (10 lbs./in. width)                              |
| Lap Adhesion                  | ASTM D 1876 Mod.    | 1.2 kN/m (7.0 lbs./in. width)                            |
| Puncture Resistance, Membrane | ASTM E 154          | 0.275 kN (61 lbs.)                                       |
| Water Absorption, 72 Hours    | ASTM D 570          | 0.09%                                                    |
| Exposure to Fungi             | GSA-PBS-07115       | Unaffected                                               |

\*Elongation, ultimate failure of rubberized asphalt

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