

CWC®SMARTSHIELD HDPE

Pressure Sensitive HDPE Waterproofing Membrane

Description

CWC®SMARTSHIELD HDPE is pre-fabricated unique composite sheet membrane with thick HDPE film, pressure sensitive adhesive. **SMART SHIELD HDPE** can be installed on reasonably uniform, plain concrete surfaces for below ground waterproofing.

CWC®SMARTSHIELD HDPE waterproofing membrane is designed to bond fully and permanently with poured concrete. Various grades are available as per table given below:

Indicative Characteristics

SMART SHIELD HDPE 1.2 UVP Pre-applied Self adhesive	UV-protective layer 1.2mm thick
SMART SHIELD HDPE 1.5 UVS Pre-applied self-adhesive	Sand-finished protective layer 1.5mm thick
SMART SHIELD HDPE 1.2 PA Post- applied self-adhesive	1.2mm thick

Indicative Characteristics

Thickness, mm, ASTM D3767	1.2, 1.5
Tensile Strength, MPa, ASTM D 412	27
Elongation, %, ASTM D 412	500
Peel Adhesion to Concrete, N/m, ASTM D903	1000
Puncture Resistance, N, ASTM E 154	1000
Permeance to Water Vapor Transmission, m, ASTM D 5385	70
Hydrostatic Water Pressure Resistance at 7 Bar	No leakage

Domains of Application

- Waterproofing of below grade concrete structure
- Protection of concrete foundation against water soluble aggressive chemicals.
- Used as vapor barrier membrane

Method of Application

Surface Preparation

Substrate surface must be sufficiently cleaned and free from any sharp projection during laying of membrane.

Horizontal Surface / PCC

The Substrate shall be smooth free from any loose aggregate and sharp pultruding elements. Curve and round surface must be avoided.

Vertical Surface

CWC®SMARTSHIELD HDPE can be used for blind side waterproofing after using of gunniting, concrete or other suitable material to provide uniform surface. Or **CWC HDPE PA (POST APPLIED) GRADE** shall be used for vertical surface.

Membrane Installation

Lay the membrane by carefully aligning and roll it out to convenient length. Lay the subsequent roll over the adhesive sleeve in such a way so that it can easily overlapped firmly by using a steel roller without much disturbance.

Important Note: Before selection of membrane, consult CWCC Technical team for detailed installation procedure.

Advantages

- High tensile and tear resistance
- Elastomeric membrane with a good combination of high elasticity and tensile strength
- Retains its flexibility at low temperature (-20°C)
- Forms an integral Part of poured concrete.
- Good chemical resistance
- Quick installation and environment friendly
- Withstands the movement in the structure due to its higher elongation property

Shelf Life & Storage

Several years from the date of manufacturing when stored in un-opened, original sealed and dry condition at a temperature range from +5°C to 40°C

Packing

1.2 m X 30m ROLL

Before use, refer to the Material Safety Data Sheet.

The MSDS is available on www.cwcchemicals.com