COLPHENE
BSW H

WATERPROOFING

APPLICATIONS

FOUNDATIONS

TECHNICAL DATA SHEET 211122SCANE (supersedes 210412SCANE)

DESCRIPTION

COLPHENE BSW H is a high-performance waterproofing membrane composed of SBS modified bitumen and a non-woven polyester reinforcement. The surface is sanded, while the underface is covered with a thermofusible plastic film. COLPHENE BSW H is designed for horizontal blindside waterproofing applications.

APPLICATION

HEAT-WELDED

COLPHENE BSW H membrane is installed loose laid on the concrete work slab or on a protection board over prepared and well compacted soil. To prevent overly thick membranes, stagger the end laps by a minimum of 300 mm (12 in). Side lap joints must be a minimum of 100 mm (4 in) and end lap joints must be a minimum of 150 mm (6 in). Membrane overlaps are sealed, by heat-welding, with a propane torch or using an electric hot-air welder. All angle changes (inside and outside corners) and others details must be reinforced by heat-welding an additional 300 mm (12 in) piece of COLPHENE BSW H centered on the angle.

It is recommended to install a protection layer (COLPHENE BSW H or COLPHENE HR SP) over the COLPHENE BSW H prior to placement of the reinforcement steel bars and pouring of the concrete slab.

DUO SELVEDGE

Over the entire width of DUO SELVEDGE, 50 % of the surface is covered with exposed sticky bitumen. The remaining surface of the selvedge (50 %) is covered by a thermofusible plastic film to seal overlap by heat-welding with a propane torch or with the SOPRAMATIC automatic hot-air welder.

UV exposure: up to 60 days

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.

PACKAGING

Specifications	COLPHENE BSW H
Thickness	3.5 mm (140 mil)
Reinforcement	Non-woven polyester
Dimensions	1 m x 10 m (3.3 ft x 33 ft)
Weight	4.3 kg/m² (0.9 lb/ft²)
Selvedge width	100 mm (4 in)
Surface	Sanded
Underface	Thermofusible plastic film
Rolls per skid	25

(All values are nominal, variations ± 15 %)

TDS_COLPHENE_BSW H.indd

SYSTÈME QUALITÉ ISO 9001 QUALITY SYSTEM

SYSTÈME ENVIRONNEMENT ISO 14001 ENVIRONMENT SYSTEM

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PROPERTIES

Properties	Standards	COLPHENE BSW H
Tensile strength at peak load, MD/XD	ASTM D5147	17 / 11.5 kN/m
Elongation at break, MD/XD	ASTM D5147	60 / 65 %
Tear strength, MD/XD	ASTM D5147	600 N / 400 N
Low temperature flexibility	ASTM D5147	Unaffected at -20 °C (-4 °F)
Puncture resistance	ASTM E154	1050 N (236 lbf)
Water vapour permeance	ASTM E96 (Method B)	< 2.5 ng / Pa•s•m^2 (< 0.04 perm)
Water absorption	ASTM D570 @ 24 hours	< 0.5 %
Adhesion to poured concrete, 22 °C (72 °F)	ASTM D903 modified (Peeled at 50 mm/min)	3400 N/m (19.4 lbf/in)
Resistance to hydrostatic head	ASTM D5385	> 110 m (> 360 ft)
Lateral water migration	ASTM D5385 modified	> 110 m (> 360 ft)

(All values are subject to variation not exceeding 15%)

RADON RESISTANCE

Product	Standard	Radon Resistance R_{Rn} * ($s \cdot m^{-1}$)	R_{Rn}/R_{Rn6mil}
6 mil polyethylene membrane	ISO DIS 11665-10	1.90E+07	1.00
Colphene BSW H	ISO DIS 11665-10	3.30E+08	17.37

* Materials with a higher radon resistance are considered less permeable to radon and therefore can prevent or reduce radon ingress more effectively.
Under the test conditions, the radon resistance of Colphene BSW H membrane was 17.37 times higher than the radon resistance of 6 mil polyethylene membrane.

STORAGE AND HANDLING

Rolls must be stored upright, with the selvedge side on top. If the product is stored outdoors, cover them with an opaque protective cover after the removal of the delivery packaging.

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