



WATERPROOFING

APPLICATIONS

FOUNDATIONS

# COLPHENE

## BSW H (Formerly know as COLPHENE BSW FLAM)

TECHNICAL DATA SHEET 171220SCANE

(supersedes 160510SCAN1E)

### 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 slab or 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).

Membranes 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 COLPHENE BSW PROTECT'R, as a protection layer, 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.



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NOTE : SOPREMA INC. may modify the composition and/or use of its products without prior notice.

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### 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/m <sup>2</sup> (0.9 lb/ft <sup>2</sup> )
Selvedge width	100 mm (4 in)
Surface	Sanded
Underface	Thermofusible plastic film
Rolls per skid	25

(All values are nominal, variations  $\pm 15\%$ )

### 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)	< 2.1 ng / Pa·s·m <sup>2</sup>
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%)

### 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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