

COLPHENE BSW H



WATERPROOFING

APPLICATIONS

FOUNDATIONS

UNDERGROUND STRUCTURES

TECHNICAL DATA SHEET

ANZ-TDS-128-COLPHENE BSW H

DESCRIPTION

COLPHENE BSW H is a waterproofing membrane composed of a select blend of high-performance flexible SBS elastomeric bitumen reinforced with a ultra high strength double reinforcement system (heavy duty non-woven polyester associated with an additional specific fleece).

The topside is covered with specially engineered silicon dioxide crystals and the underside is covered by a thermofusible plastic film.

Thanks to its special formulation and composition **COLPHENE BSW H** has excellent, continuous and homogenous bond to poured structural concrete, increased resistance to hydrostatic pressure and superior resistance to tears and punctures.

Excellent adhesion to poured concrete

Superior resistance to tears & punctures

High resistance to hydrostatic pressure

Increased protection thanks to DUO SELVEDGE

FIELD OF APPLICATION

COLPHENE BSW H is a pre-applied membrane designed for horizontal blind side waterproofing applications (below grade and tanking works).

COLPHENE BSW H can be used for the following general applications:

- Retaining walls
- Foundations

APPLICATION METHOD

COLPHENE BSW H is installed loose laid on the concrete slab or compacted soil or **COLPHENE H** can be fully torched over loose laid **SOPRALENE FLAM 180**.

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.

INSTALLATION PROCEDURE

SUBSTRATE

- No work should be started until all surfaces are smooth, dry and free of ice, snow or any other substance that may prevent the membrane from adhering properly.
- Commencement of installation shall be taken as acceptance of the substrate by the Applicator.

INSTALLATION

- **COLPHENE BSW H** loose laid onto blinding or the prepared substrate.
- Side lap joints must be a minimum of 100 mm and end lap joints must be a minimum of 150 mm.
- To prevent overly thick membranes, stagger the end laps by a minimum of 300 mm.
- All angle changes (inside and outside corners) and others details must be reinforced by heat-welding on additional 300 mm piece of **COLPHENE BSW H** centered on the angle.
- Reinforcement steel bars installation and pouring of the concrete slab must be carried out carefully.

FOR COMPLETE INSTALLATION SPECIFICATION AND INFORMATION PLEASE CONTACT YOUR LOCAL SOPREMA REPRESENTATIVE.



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NOTE : All products manufactured by SOPREMA Inc. comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.

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PACKAGING

SPECIFICATIONS	COLPHENE BSW H
Roll dimensions	1 m x 10 m
Weight	4.3 kg/m ²
Rolls per pallet	25

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
Puncture resistance	ASTM E154	1050 N
Water vapour permeance	ASTM E96 (Method B)	< 2.5 ng / Pa•s•m ²
Water absorption	ASTM D570 @ 24 hours	< 0.5 %
Adhesion to poured concrete, 22 °C	ASTM D903 modified (Peeled at 50 mm/min)	3400 N/m
Resistance to hydrostatic head	ASTM D5385	> 110 m
Lateral water migration	ASTM D5385 modified	> 110 m
UV exposure	-	Up to 60 days

(All values are nominal)

STORAGE AND HANDLING

Rolls must be stored upright, with the selvedge side on top. If the products are stored outdoors, cover them with an opaque protection cover after removal of the delivery packaging. shelf life of 36 months.

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, their representative and/or the contractor are responsible for checking the suitability of products for their intended use.



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