

COLPHENE BSW V 3.0

Description

High-performance waterproofing membrane composed of elastomer modified bitumen and a composite reinforcement.

The upper surface is finished with specially engineered silicon dioxide crystals.

The self-adhesive lower surface is protected by a silicone release film.

40 mm of the DUO overlap is finished with self-adhesive bitumen protected by a silicone release film. The remaining 80 mm is protected with a thermofusible film and can be welded with flame or hot air.

Used as vertical waterproofing of walls for underground structures (below grade works and basements).

Thanks to its special formulation and composition COLPHENE BSW V 3.0 has an excellent, continuous and homogenous bond to poured structural concrete which contributes to an increased resistance to hydrostatic pressure and superior mechanical properties.

Characteristics

Composition			Value	
Reinforcement			composite	
Finish upper side			especially engineered silicon dioxide crystals	
Finish lower side			silicone release film	
Coating mass			elastomer modified bitumen	
Technical characteristics	Standard	Unit	Value	Tolerance
Thickness membrane	EN 1849-1	mm	3,0	± 5 %
Mass (indicative)	EN 1849-1	kg/m ²	3,8	
Tensile force (L / T)	EN 12311-1	N/50 mm	800 / 700	± 20 %
Elongation at max. tensile force (L / T)	EN 12311-1	%	45 / 45	± 15
Resistance to static loading	EN 12730-A EN 12730-B	kg	NPD ≥ 10	
Resistance to impact	EN 12691-A EN 12691-B	mm	≥ 650 NPD	
Resistance to tearing (nail shank) (L / T)	EN 12310-1	N	350 / 350	± 100
Flexibility at low temperature	EN 1109	°C	≤ -16	
Flow resistance at elevated temperature after aging	EN 1110 / EN 1296	°C	≥ 70	
Joint properties: peel resistance	EN 12316-1	N/50 mm	≥ 100	
Joint properties: shear resistance	EN 12317-1	N/50 mm	≥ 560	
Watertightness	EN 1928		pass	
Watertightness after ageing	EN 1928 / EN 1296		pass	
Reaction to fire	EN 13501-1	Class	E	
Tensile strength at peak load (L / T)	ASTM D5147	kN/m	≥ 15,0 / 13,5	
Elongation at break (L / T)	ASTM D5147	%	60 / 65	
Tear strength (L / T)	ASTM D5147	N	≥ 575 / 500	
Flexibility at low temperature	ASTM D5147	°C	unaffected at -18	
Resistance to puncture	ASTM E154	N	≥ 1000	
Water vapour transmission	ASTM E96-B	ng/(Pa.s.m ²)	< 2,5	
Water absorption	ASTM D570	%	< 0,9	
Peel strength on poured structural concrete	ASTM D903	N/m	≥ 4200	
Resistance to hydrostatic pressure	ASTM D5385	m	≥ 110	
Resistance to water migration	ASTM D5385	m	≥ 110	
Gas permeability	ASTM D1434	10 ⁻¹² .cm ² /s.Pa 10 ⁻⁷ .cm ² /atm	< 60 < 60	
Radon gas diffusion coefficient D	K124/02/95	10 ⁻¹¹ .m ² /s	1,4	± 0,1
- including joint			1,3	± 0,1

SOPREMA reserves the right to amend the composition of its material and consequently their prices, without prior notice. For this reason, all orders will be accepted only in accordance with the conditions and technical specifications in force at the date of order.

Contact: www.soprema.com

Packing

Dimensions of the roll	EN 1848-1	m	≥ 10 x 1
Mass/roll		kg	± 38
Rolls/pallet			30

NPD = no performance determined

Installation

COLPHENE BSW V 3.0 is self-adhesive and is adhered to a prepared substrate in vertical strips of maximum 5 m. The longitudinal overlaps must be at least 120 mm and the transversal overlaps at least 150 mm. After installation, press the membrane evenly over the entire surface using a roller to ensure good adhesion. The overlaps are partial torched (longitudinal: partial self-adhesive and partial torched; transversal: torched). The upper edge of the strips must be attached to the substrate every 250 mm with appropriate fasteners, using round pressure plates with a diameter of ≥ 40 mm. In order to obtain a good adhesion, the membrane must be placed at a temperature above +10 °C. For processing, the rolls must be stored for at least 12 hours at a temperature above +10 °C. For more information, please contact Soprema.

Certifications**- BBA 21/5915****Special indications****Hygiene, Health and Environment**

The product does not contain any substance which is likely to be detrimental to your health or to the environment and complies with generally admitted Health and Safety Requirements. For more information, please refer to the relevant safety data sheet.

Quality-, Environment- and Safety Management

SOPREMA always recognises as a high level of importance the quality of the products, the environment and safety. For this reason, we operate independently monitored Quality and Environment Assurance Systems in line with **EN ISO 9001** and **EN ISO 14001**.