

TECHNICAL DATA SHEET

n° WPBEX249/d cancels and replaces WPBEX249/c

F

COLPHENE BSW V

COLPHENE BSW V is a high-performance waterproofing membrane composed of SBS modified elastomeric bitumen with a composite reinforcement.

The topside is covered with specially engineered carbon dioxide crystals and the self-adhesive underside is covered by a silicone release film.

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

Its unique design, including the **DUO SELVEDGE** technology, allows welding of side laps using a torch or a hot-air welder.

User application

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

All the applications are described in **SOPREMA**'s Technical Guidelines in force.

Composition

	COLPHENE BSW V	
Reinforcement	Composite	
Binder	Elastomeric bitumen : blend of selected bitumen and SBS* thermoplastic polymers	
Thickness (EN 1849-1)	3,0 mm (-5% ; +5%)	
Weight (1849-1)	3,5 kg/m²	
Topside	Specially engineered carbon dioxide crystals	
Underside	Self-adhesive protected by a silicone release film	
Overlap (DUO technology)	100 mm covered with a release film (55 mm self-adhesive + 45 mm thermofusible film)	
*According to UEAtc directives concerning the normalization of waterproof elastomeric SBS bitumen coverings		

Packaging .

	COLPHENE BSW V	
Dimensions of the roll	10 m x 1 m	
Weight of the roll	about 35 kg	
Storage	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 removal of the delivery packaging	
Roll lengths are given with a tolerance of < 1 %. Width of roll is given with a tolerance of 1% (UEAtc). Rolls must be stored upright on flat ground.		

During storage, protect the rolls against moisture. In cold weather, we recommend that the rolls be kept at a minimum temperature of + 2° C (+ 36 °F) for at least 5 hours before installation.

SOPREMA SAS with a Capital of 50 000 000 € - Headquarter: 14 rue de Saint-Nazaire – 67100 STRASBOURG – FRANCE Postal adress: CS 60121 - 67025 STRASBOURG CEDEX. RCS STRASBOURG: 314 527 557.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.





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Characteristics (outside CE marking) _

	Test method	COLPHENE BSW V
Peel strength Adhesion to poured structural concrete	ASTM D903	average 4200 N / m
Resistance to hydrostatic head	ASTM D5385	≥ 110 m (≥360 ft)
Lateral water migration	ASTM D5385 modified	≥ 110 m (≥360 ft)
Radon gas diffusion coefficient D on overlap	K124/02/95	1.4 (±0.1) x 10 ⁻¹¹ m ² /s 1.3 (±0.1) x 10 ⁻¹¹ m ² /s

Installation

COLPHENE BSW V is installed in vertical strips of 5 m maximum onto acceptable substrate. **COLPHENE BSW V** membrane is adhered to substrate by peeling off the silicone release film.

Side lap joints must be a minimum of 100 mm and end lap joints must be a minimum of 150 mm.

Apply even pressure using a membrane roller over the entire surface of the membrane to ensure good adhesion.

Membranes overlaps are sealed, by heat-welding, with a gas torch or using an electric hot-air welder. The uppermost edge of each strip must be mechanically fastened to substrate using round plates \geq 40 mm diameter and appropriate fasteners for base material every 300 mm on center.

Application temperature : Above -10°C

DUO SELVEDGE

Over the entire width of **DUO SELVEDGE**, 55 mm of the surface is covered with self-adhesive bitumen. The remaining surface of the selvedge 45 mm is covered by a thermofusible film to seal overlap by heat-welding with a gas torch or an electric hot-air welder.

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

Special indications

Hygiene, health and environment:

The product does not contain any substance likely to be detrimental to health or to environment and complies with generally admitted Health and Safety Requirements. For further information, please refer to relevant Safety Data Sheet.

Traceability:

Product traceability is ensured through a manufacturing code present on the packaging.

Quality control:

SOPREMA has always attached the highest importance to the quality of its products, to the respect of environment and people.

For this reason, we apply an integrated management of the Quality and Environment certified **ISO 9001** and **ISO 14001**.



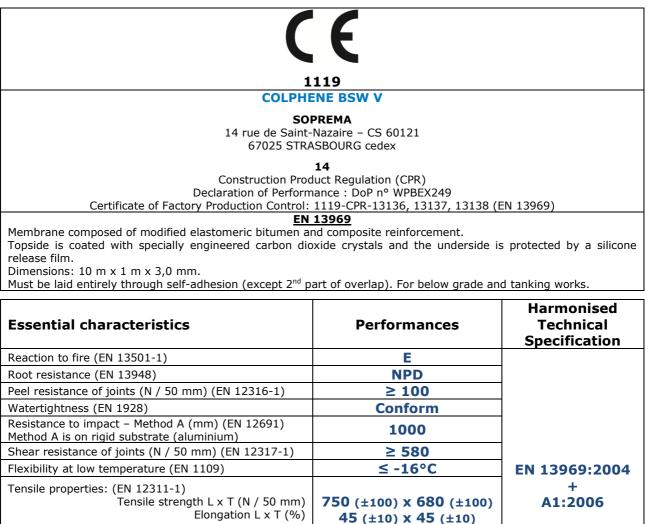


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CE marking



 Resistance to static loading (kg) Method B (EN 12730)
 5

 Method B is on rigid substrate (concrete)
 5

 Resistance to tearing (nail shank) L x T (N)
 300 (±50) x 300 (±50)

 Urability (EN 1296 / EN 1928)
 Watertightness after ageing

 Dangerous substances (Notes 2 and 3)
 Complies

Note 2: This product does not contain asbestos or tar constituents.

Note 3: Since there is no European test method available, no performance declaration for leaching behavior can be made. It must be made according to national rules in force in the place of use.

Additional characteristic	COLPHENE BSW V	
Durability (EN 1296 / EN 1110)	≥ 70°C	
Flow resistance at elevated temperature after ageing	≥ 70°C	

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