

# COLPHENE BSW V



WATERPROOFING

APPLICATIONS

FOUNDATIONS

UNDERGROUND STRUCTURES

## TECHNICAL DATA SHEET

ANZ-TDS-13-COLPHENE BSW V

### DESCRIPTION

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

The topside is covered with specially engineered carbon dioxide crystals and the underside is covered by a silicone release film. **COLPHENE BSW V** is designed for vertical blind side waterproofing applications.

### FIELD OF APPLICATION

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

**COLPHENE BSW V** can be used for the following general applications:

- Retaining walls
- Foundations

### APPLICATION METHOD

**COLPHENE BSW V** is self-adhered 'peel and stick' membrane installed over a prepared substrate using ELASTOCOL STICK PRIMER and neoprene roller.

### DUO SELVEDGE

Over the entire width of DUO SELVEDGE, 60% of the surface is covered with exposed sticky bitumen. The remaining surface of the selvedge (40%) 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
- The use of ELASTOCOL STICK PRIMER or ALSAN EP 100 H2O is required before the installation of **COLPHENE BSW V** membrane if the adhesion is not enough.

#### 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. Ensure a bleed out at all laps and end-laps.
- Once installed, a pressure must be applied over the whole surface using a membrane roller to ensure good contact.
- Membranes overlaps are sealed, by heat-welding, with a propane torch or using an electric hot-air welder.
- The uppermost edge of each strip must be mechanically fastened to substrate using round plates of 50 mm diameter and appropriate fasteners for base material every 300 mm on center.

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



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### PACKAGING

| SPECIFICATIONS   | COLPHENE BSW V |
|------------------|----------------|
| Roll dimensions  | 1 m x 10 m     |
| Roll weight      | 35 kg          |
| Rolls per pallet | 30             |

### PROPERTIES

| PROPERTIES                                                                                                           | STANDARDS                                   | COLPHENE BSW V                                      |
|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------|
| Tensile strength at peak load, MD/XD                                                                                 | ASTM D5147                                  | 15.3 / 11.5 kN/m                                    |
| Elongation at break, MD/XD                                                                                           | ASTM D5147                                  | 60 / 56 %                                           |
| Tear strength, MD/XD                                                                                                 | ASTM D5147                                  | 575 N / 500 N                                       |
| Low temperature flexibility                                                                                          | ASTM D5147                                  | Unaffected at -20 °C                                |
| Puncture resistance                                                                                                  | ASTM E154                                   | 1100 N                                              |
| Water vapour permeance                                                                                               | ASTM E96<br>(Method B)                      | < 2.1 ng / Pa•s•m <sup>2</sup>                      |
| Water absorption                                                                                                     | ASTM D570<br>@ 24 hours                     | < 0.5 %                                             |
| Adhesion to poured concrete, 22 °C                                                                                   | ASTM D903 modified<br>(Peeled at 50 mm/min) | 4200 N/m                                            |
| Resistance to hydrostatic head                                                                                       | ASTM D5385                                  | > 110 m                                             |
| Lateral water migration                                                                                              | ASTM D5385 modified                         | > 110 m                                             |
| Gas permeability (methane)<br>- (cm <sup>2</sup> / s @ 1 atm)<br>- (cm <sup>3</sup> x cm / cm <sup>2</sup> x s x Pa) | ASTM D1434                                  | 4.12 x 10 <sup>-7</sup><br>4.06 x 10 <sup>-12</sup> |
| Volume resistivity (ohms-cm)                                                                                         | ASTM D257                                   | 1.57 x 10 <sup>14</sup>                             |
| 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 **COLPHENE BSW V** is 36 months, when properly stored.

### 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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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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