



WATERPROOFING

PRE-APPLIED / BONDED

MIDDLE EAST

**DUO SELVEDGE**  
TECHNOLOGY

# COLPHENE® BSW H 3.5

PRE-APPLIED, BONDED SYSTEM MEMBRANE  
DESIGNED FOR BLIND SIDE WATERPROOFING

TECHNICAL DATA SHEET 170714SME2E

## DESCRIPTION

COLPHENE BSW 3.5 is a pre-applied, fully bonded, system membrane designed for horizontal blind-side waterproofing applications. The membrane is composed of formulated select blend of high performance elastomeric Styrene-Butadiene-Styrene (SBS) modified bitumen combined with Ultra-High Strength (UHS) reinforcement and coated with specially engineered Silicone Dioxide.

## USER APPLICATIONS

- As a Value Engineering Solution in Deep Basement Waterproofing.
- Blind-Side Waterproofing (where excavation and access are limited).
- Below-Grade Structures Waterproofing.
- Under Concrete Slabs.
- Tunnels & Underpasses

## INSTALLATION GUIDELINES

- As part of an integrated Value-Engineering system, COLPHENE BSW H 3.5 is installed layered and overlapped with other COLPHENE BSW system membranes.
- In horizontal application, apply the COLPHENE BSW H 3.5 loose-laid onto blinding or the prepared substrate.
- Stagger laps in order to avoid excessive layering. Follow the DUO-SELVEDGE guidelines to install side-laps. Side-laps with the adjacent ply should be, minimum, 120 mm while end-laps should be minimum 150 mm. Heat-weld all side-lap edges with a propane torch. Use a round nose trowel to create a perfect seal with the bead of bitumen. End-laps shall be staggered by at least 300 mm. For more information on the system installation follow the project's Method Statement or consult your local SOPREMA representative.

## DUO-SELVEDGE TECHNOLOGY

COLPHENE BSW 3.5 is distinguished by SOPREMA's unique, patented technology; DUO-SELVEDGE which is designed to ensure a safe and high performance installation at the critical locations of side-laps. A percentage of the surface of DUO-SELVEDGE is sealed with self-adhesive. The rest of the selvedge surface is then safely sealed with propane torch or hot air. For best application, use SOPREMA's **SOPRAMATIC CART** which is equipped with a hot air blower designed to weld the DUO SELVEDGE of SOPREMA membranes.

## COLPHENE BSW SYSTEM COMPONENTS

- COLPHENE BSW V 3.0 (Vertical Application)
- COLPHENE BSW H 3.5 (Horizontal Application)
- COLPHENE BSW PROTECT'R 3.0 (Horizontal Protection)
- PROTECTDRAIN or SOPRADRAIN 10 G (Vertical Support)
- SOPRAJOINT RIH / SOPRAJOINT WS (CJ Treatment)

## DETAILING & PILE HEAD

- COLPHENE SP LAP (Construction Joint & Corner detailing)
- ALSAN CAP-C (Pile Head Re-Profiling)
- ALSAN FLASHING (Detailing & Pile Head Treatment)
- ALSAN CAP-E (Pile Head Encapsulation)
- FLASHING REINFORCEMENT (Detailing & Pile Head Treatment)

## SUSTAINABILITY, HEALTH & ENVIRONMENT

All our activities & growth target sustainable development to minimize the impact on the environment. COLPHENE BSW system membranes do not contain any substances that might be detrimental to health or to the environment and comply with generally accepted health standards. Please refer to the product's Safety Data Sheet for more information.

## QUALITY CONTROL

COLPHENE BSW system membranes are manufactured in ISO-9001 certified SOPREMA factories which are audited by Third-Party organizations such as Underwriters Laboratories (UL) and FM Global. The system membranes are manufactured to meet SOPREMA's Quality Management Manual.

Remarkable Bond-Strength to Structural Concrete

Part of a Value Engineering System in Sub-Structure Waterproofing

Eliminates the Need for Protective Screed on Horizontal Substrates

Resistant to Aggressive Chemicals (Chloride, Sulphate and pH level between 2 & 10)

Homogeneous, Fully Sealed DUO-SLEVEDGE Overlaps.

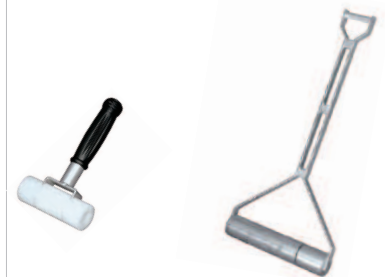
### USE WITH COLPHENE BSW PRODUCTS

5" ROLLER

20" ROLLER

CODE: 25075

CODE: 25073



For ideal application results, use SOPREMA's Rollers & Tools to install COLPHENE BSW membranes and seal overlaps.



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## PACKAGING

SPECIFICATIONS	STANDARDS	COLPHENE BSW H 3.5
Colour	-	Black
Thickness (Gross)	ASTM D5147	3.5 mm
Roll Dimensions	-	10 x 1 m
Roll Weight	-	44 Kg
Rolls per Pallet	-	25
Underface	-	Thermofusible Film
Surface	-	Specially Engineered Silicone Dioxide Sand
Side-Lap Width	-	12 cm

(All Values are Nominal)

## TECHNICAL PROPERTIES

PROPERTIES	STANDARDS	COLPHENE BSW H 3.5
Tensile Strength, MD/XD	ASTM D5147	17/11.5 kN/m
Elongation @ Break, MD/XD	ASTM D5147	60 % / 65 %
Tear Strength, MD/XD	ASTM D5147	600 N / 400 N
Puncture Resistance, MD/XD	ASTM D5147	1050 N
Water Vapour Permeance	ASTM E96 method B	< 2.1 ng / Pa·s <sup>m</sup> <sup>2</sup> < 0.04 perms
Water Absorption	ASTM D570 @ 24 hrs	< 0.5 %
Adhesion to Poured Structural Concrete, 22 °C	ASTM D903 modified	3400 N/m
Resistance to Hydrostatic Head	ASTM D5385	> 110 m
Lateral Water Migration	ASTM D5385 modified	> 110 m
Static Coefficient of Friction on Concrete	ASTM D1894	0.7
Low Temperature Flexibility	ASTM D5147	Unaffected @ -30 °C (-22 °F)

(All Values are Nominal)

All published properties are nominal and considered by SOPREMA to be true and accurate. These nominal values are subject to variation not exceeding 15% based on statistical data obtained internally and verified by internationally accredited independent laboratories.

## STORAGE & HANDLING

Rolls must be stored in a shaded area in an upright position with the selvedge side on top.

SOPREMA may modify the composition and/or utilization of its products without prior notice.



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