

COLPHENE H

TECHNICAL DATA SHEET 190628SCANF

(supersedes 180412SCANF)



WATERPROOFING

APPLICATIONS

ROOFS

FOUNDATIONS

PLAZA-DECKS

DESCRIPTION

COLPHENE H is a hot-applied rubberized asphalt waterproofing membrane reinforced with mineral fillers.

COLPHENE H is used in conjunction with a reinforcing fabric, on horizontal and vertical surfaces of protected-membranes roofing systems (inverted roofs), green roofs, plaza-decks, bridges, foundation walls and others below grade applications.

SURFACE PREPARATION

Concrete surfaces: Shall be cured for at least 28 days after removal of forms. Surfaces must be dry, clean and free of loose particles, curing products, irregularities, etc.

Note: Using **ELASTOCOL 500** primer is required over porous substrates before the installation of **COLPHENE H** membrane.

Overlay boards: As per manufacturer's recommendations.

Plywood: Plywood that is to receive waterproofing must be exterior grade plywood, 16 mm (5/8") thick minimum. OSB and particle boards are not acceptable as substrates.

APPLICATION

APPLIED WITH A SQUEEGEE

COLPHENE H is applied with a flat squeegee. Do not use a notched squeegee.

Apply the base coat of **COLPHENE H** at a minimum thickness of 2.3 mm (90 mils) to the substrate.

Immediately unroll the reinforcing fabric with a 75 mm (3 in) overlap of adjacent sheets into the base coat of **COLPHENE H** while in hot liquid state.

Apply the top coat of **COLPHENE H** at a minimum rate of 3.2 mm (125 mils) over the reinforcing fabric.

Minimum ambient temperature for application: -18 °C (0 °F)

Application temperature: The product must be at a minimum temperature of 177 to 204 °C (350 to 400 °F) when in contact with the substrate.

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

COVERAGE RATE

Per coat	COLPHENE H
Base coat	3.0 kg/m ² (62 lb/100 ft ²) = 2.3 mm (90 mils)
Top coat	4.2 kg/m ² (86 lb/100 ft ²) = 3.2 mm (125 mils)

(All values are nominal)

LIMITATIONS

Do not apply over any type of lightweight or insulating concrete without written approval. Not for exposed applications. Not for applications in enclosed areas with no ventilation. Melt in oil-jacket agitated kettles only.

EQUIPMENT

COLPHENE H is heated utilizing a double-jacketed, oil bath melter with mechanical agitation, specifically designed for heating rubberized asphalt waterproofing membranes. An air jacketed melter is also acceptable. Melter must be capable of maintaining material temperature of 177 to 204 °C (350 to 400 °F), and oil-bath temperature of 260 to 288 °C (500 to 550 °F) intermittently. Direct-fired melters are not recommended. Add **COLPHENE H** to maintain the melter at 3/4 capacity at all times.



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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 H
Colour	Black
Density	1.2 g/ml (0.04 lb/in ³)
Bag Weight	11.3 kg (25 lb)
Total system weight	7.3 kg/m ² (1.5 lb/ft ²)
Container	2 Bags/ Box

(All values are nominal)

PROPERTIES

Properties	Standards	COLPHENE H
Recommended Application Temperature	CGSB-37.50-M89	193 - 204 °C (380 - 400 °F)
Flow, @ 60 °C (140 °F)	CGSB-37.50-M89	3 mm (118 mils)
Solids content	ASTM D1353	100 %
Cone Penetration @ 25 °C (77 °F), max. @ 50 °C (122 °F), max.	CGSB-37.50-M89	110 mm (4.3 in) 200 mm (8 in)
Toughness	CGSB-37.50-M89	5.5 J
Toughness Ratio	CGSB-37.50-M89	0.04 mm (1.6 mils)
Adhesion, min	CGSB-37.50-M89	1
Water Vapour Permeance, min	ASTM E96	1.7 ng/pa.s.m ² (0.27 perm)
Water Absorption, 96 hours @ 50 °C (122 °F)	CGSB-37.50-M89	0.35 max gain or 0.18 max loss
Low Temperature Flexibility, -25 °C (-13 °F)	CGSB-37.50-M89	Pass
Low Temperature Crack Bridging @ -25 °C (-13 °F)	CGSB-37.50-M89	Pass, 10 cycles
Heat Stability, 5 hours	CGSB-37.50-M89	Pass
Viscosity at Application Temperature	CGSB-37.50-M89	2-15 seconds
Flash Point, min	ASTM D92	260 °C (500 °F) or 25 °C (45 °F) above recommended application temperature

(All values are nominal)

STORAGE AND HANDLING

COLPHENE H should be stored in a dry location, sheltered from inclement weather, harmful substances, from flames and welding sparks. Pallets of COLPHENE H should not be double stack.

For more information, refer to instructions on the container label and relevant safety data sheet (SDS).



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