



WATERPROOFING

APPLICATIONS

FOUNDATIONS

COLPHENE 3000

TECHNICAL DATA SHEET 240430SCANE

(Supersedes 220824SCANE)

DESCRIPTION

COLPHENE 3000 is a self-adhesive waterproofing membrane composed of SBS modified bitumen and a tri-laminated woven polyethylene facer. The underface is covered with silicone release film.

COLPHENE 3000 is designed to waterproof foundation walls and other below grade vertical surfaces.

RECOMMENDED SUBSTRATES

This product can be used on most building surfaces, such as masonry, concrete and wood.

SURFACE PREPARATION

The use of SOPRASEAL STICK PRIMER, ELASTOCOL STICK ZERO or ELASTOCOL STICK H₂O primer is required before the installation of COLPHENE 3000 membrane. The substrate should be clean, sound, dry and free of loose materials, grease and any contaminants, which may compromise the performance of the product.

INSTALLATION

SELF-ADHESIVE

COLPHENE 3000 membrane must be adhered to support by peeling off the silicone release film. Once installed, a pressure must be applied over the whole surface using a membrane roller to ensure good contact. Side lap joints must be a minimum of 75 mm (3 in) and end lap joints must be a minimum of 150 mm (6 in). The uppermost edge of the membrane shall be mechanically fastened using termination bars and sealed with SOPRAMASTIC.

Application temperatures winter formulation: -10 to 10 °C (14 to 50 °F)

Application temperatures summer grade: 10 to 50 °C (50 to 122 °F)

UV exposure: up to 60 days

RESTRICTION

Concrete must be cured a minimum of fourteen (14) days and an adhesion test is recommended before membrane application.

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

GENERAL INFORMATION

Specifications	COLPHENE 3000
Thickness	1.5 mm (60 mils)
Dimensions	1 x 18.7 m (3.3 x 61 ft)
Weight	1.5 kg/m ² (0.3 lb/ft ²)
Selvedge width	75 mm (3 in)
Surface	Tri-laminated woven polyethylene
Underface	Silicone release film
Qty/pal	30

(All values are nominal)



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PROPERTIES

Properties	Standards	COLPHENE 3000	
		MD	XD
Tensile strength	ASTM D5147	11.3 kN/m (64 lb/in)	15.4 kN/m (88 lb/in)
Tensile strength	ASTM D412	11.2 MPa (1624 lb/in ²)	13.1 MPa (1900 lb/in ²)
Ultimate elongation	ASTM D412	88%	55%
Ultimate elongation	ASTM D5147	40%	25%
Elongation of rubberised asphalt	ASTM D5147	> 1000%	
Flexibility at cold temperature	ASTM D5147	-35 °C (-31 °F)	
Dynamic puncture	ASTM E154	747 N (168 lbf)	
Static puncture	ASTM D5602	400 N (90 lbf)	
Tear resistance	ASTM D5601	375 N (84 lbf)	400 N (90 lbf)
Lap adhesion	ASTM D1876	2000 N/m (11.4 lb/in)	
Water absorption, max.	ASTM D5147	0.1%	
Peel resistance	ASTM D903	3500 N/m (20 lb/in)	
Water vapour permeance	ASTM E96 (Procedure B)	< 2.5 ng/Pa·s·m ² (< 0.04 perm)	
Crack cycling, at -32 °C (25.6 °F), 100 cycles	ASTM C836	Unaffected	
Resistance to hydrostatic head	ASTM D5385	> 110 m (>360 ft)	
Adhesion strength to concrete, <i>not primed combined with primer</i>	ASTM D1000	560 N/m (3.2 lb/in) 1650 N/m (9.4 lb/in)	
Average volume resistivity	ASTM D257	4.41 TΩ·cm	
Average surface resistivity	ASTM D257	14.6 TΩ	
Radon resistance, ⁽¹⁾	R_{Rn} (s·m ⁻¹) $R_{Rn}/R_{Rn\ 6\ mils}$	ISO DIS 11665-13	5.55 x 10 ⁹ 29.21 ⁽²⁾

For CCMC product evaluation see CCMC Evaluation listing #13560-R

(All values are nominal)

(1): Materials with higher radon resistance are considered less permeable to radon and can therefore more effectively prevent or reduce radon transmission.

(2): Under the test conditions, the radon resistance of the COLPHENE 3000 membrane was 29.21 times greater than the radon resistance of a standard 0.15 mm (6 mils) thick polyethylene membrane.

STORAGE AND HANDLING

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.



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