



WATERPROOFING

APPLICATIONS

ROOFING

COLPHENE SHIELD HT

TECHNICAL DATA SHEET APTDS-E-138-04

DESCRIPTION

COLPHENE SHIELD HT is a self-adhesive roof underlayment and eave protection membrane composed of SBS modified bitumen with a glass mat reinforcement. The surface is slip resistant tri-laminate woven polyethylene, while the underface is covered with a "split-back" silicone release film. This surface allows the use of **COLPHENE SHIELD HT** membrane on various slopes.

RECOMMENDED SUBSTRATES

This product can be used on plywood, OSB or asphaltic boards such as **SOPRABOARD**.

SURFACE PREPARATION

Surfaces must be clean, dry and free of loose particles. In a case where a special job site condition requires superior adhesion, using one of **ELASTOCOL STICK** primer is recommended.

INSTALLATION

COLPHENE SHIELD HT is used under roofing shingles. The thermal resistance of **COLPHENE SHIELD HT** allows the use of the membrane under roof covering materials (metal claddings, tiles, etc.) which can reach high temperatures. It is advisable to install the roof covering materials within 24 hours after the installation of those membranes.

SELF-ADHESIVE

COLPHENE SHIELD HT must be adhered to support by peeling off the siliconed release film. Once installed, a pressure must be applied over the whole surface using a membrane roller to ensure good contact.

Application temperatures : applications $\geq 10\text{ }^{\circ}\text{C}$ (50 $^{\circ}\text{F}$)

Service temperatures : **COLPHENE SHIELD HT** - applications between -45 to $115\text{ }^{\circ}\text{C}$ (-49 to $239\text{ }^{\circ}\text{F}$)

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

PACKAGING

Specifications	COLPHENE SHIELD HT
Thickness	1.0 mm (40 mil)
Dimensions	30 x 1.0 m (98 x 3 ft)
Weight	0.97 kg/m ² (0.2 lb/ft ²)
Selvedge width	75 mm (3 in)
Surface	Tri-laminate woven polyethylene
Underface	Self-adhesive, covered with a "Split-back" silicone r elease film
Rolls per skid	36

(All values are nominal)



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PROPERTIES

Properties	Standards	COLPHENE SHIELD HT
Breaking Strength, MD/XD	ASTM D1970	11.3 / 15.4 kN/m (64 / 88 lbf/in)
Elongation at Break, MD/XD	ASTM D1970	52 / 24 %
Tear resistance, MD/XD	ASTM D1970	375 / 400 N (84 / 90 lb)
Static puncture resistance	ASTM D5602	400 N (90 lbf)
Adhesion to plywood, 4.5 °C (40 °F)	ASTM D1970	500 N/m (34.3 lbf/ft)
Adhesion to plywood, 24 °C (75 °F)	ASTM D1970	1100 N/m (75.4 lbf/ft)
Low temperature flexibility	ASTM D1970	Pass at -30 °C (-22 °F)
Water vapour permeance	ASTM E96	1.25 ng / Pa•s•m2 (0.022 perm)
Nail Sealability	ASTM D1970	Pass

(All values are nominal)

STORAGE & 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 the removal of the delivery packaging.