



WATERPROOFING

APPLICATIONS

ADDITIONAL EXPERTISE

FOUNDATIONS

COLPHENE FLAM HR & HR SP

TECHNICAL DATA SHEET 171106SCANE

(supersedes -)

DESCRIPTION

COLPHENE FLAM HR & HR SP are waterproofing membranes composed of SBS modified bitumen and a non-woven polyester reinforcement. The top surface of the membrane is either sanded or covered with a thermofusible plastic film.

COLPHENE FLAM HR & HR SP are used as a waterproofing membrane on concrete for plaza decks, foundation walls and other below grade in horizontal or vertical applications.

RECOMMENDED SUBSTRATE

The product must be installed over concrete substrate.

INSTALLATION

HEAT-WELDED

COLPHENE FLAM HR & HR SP are heat-welded with a propane torch.

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.

PACKAGING

| Specifications | COLPHENE FLAM HR | COLPHENE FLAM HR SP |
|----------------|-----------------------------|-----------------------------|
| Thickness | 3.0 mm (120 mil) | 4.0 mm (160 mil) |
| Reinforcement | Composite | |
| Dimensions | 1 m x 10 m (3.3 ft x 33 ft) | 1 m x 10 m (3.3 ft x 26 ft) |
| Selvedge width | 75 mm (3 in) | |
| Surface | Thermofusible plastic film | Sand |
| Underface | Thermofusible plastic film | |
| Qty/pal | 30 | 30 |

(All values are nominal)



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PROPERTIES

As per CSA A123.23-15, Type C, Grade 3.

| Properties | COLPHENE FLAM HR & HR SP |
|---|---|
| Strain energy, min MD/XD at 23 °C (73 °F) at -18 °C (0 °F) | 9.5 / 8.5 kN/m (54 / 49 lbf/in) 12 / 11 kN/m (69 / 63 lbf/in) |
| Peak load, min MD/XD at 23 °C (73 °F) at -18 °C (0 °F) | 19 / 16 kN/m (108 / 91 lbf/in) 24 / 20 kN/m (137 / 114 lbf/in) |
| Elongation at peak load, min MD/XD at 23 °C (73 °F) at -18 °C (0 °F) | 65 / 65% 55 / 70% |
| Ultimate elongation at 23 °C (73 °F), MD/XD | 100 / 100% |
| Dimensional stability, max MD/XD | 0.5 / 0.5 % |
| Low temperature flexibility (before and after heat conditioning), max MD/XD | - 25 / - 25 °C (- 13 / - 13 °F) |
| Compound stability, min | 105 °C (221 °F) |
| Resistance to puncture | Pass |

(All values are nominal)

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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