

Cortex 0100FR Class B DPC Membrane

Description

CORTEX 0100FR DPC Membrane is a revolutionary Class B fire classified cavity barrier DPC membrane suited to the most demanding applications.

This unique DPC membrane boasts a number of qualities. First and foremost it achieves an industry first, minimum fire classification of Class B-s3, d0. It is highly durable, 100% resistant to water penetration, easy to use and conforms with EN 14909. It has excellent heat and alkali resistance with a Class B compatible paste adhesive for a complete system.

• Class B Fire Classified DPC Membrane



Benefits

- 100% Resistant to Water Penetration
- Fully Flexible & Workable
- High Impact Resistance
- System Complete With Compatible Class B Adhesive
- Conforms to EN 14909
- High Heat & Alkali Resistance

Technical Data

Fire Classification	EN13501-1	B-s3-d0
Thickness	0.5mm	0.5mm
Tensile strength	EN 12311-2	2300 / 2500 N/50mm
Tear strength	EN 12310-2	Lengthwise - 264 N/mm, Crosswise - 405 N/mm
Temperature resistance	DIN EN 1876-1/PA07.04 intern	-40°C / +70°C
Crack resistance	DIN 53359A	100000 x
UV resistance	Exposed	10+ years
Static Load Resistance	EN 12370	20 kg
Impact Resistance	EN 12691	200mm
Equivalent Air Layer Thickness (Sd)	EN 1931	12m
Water Tightness	EN 1928	W1 (2kPa & 60kPa for 24 hours)

Cortex 0560FR Adhesive Flame Retardant Membrane

Description

Cortex 0560FR is a flame retardant flexible membrane with a high bond reinforced adhesive coating for direct bonding to most construction substrates. It has a release liner which can be split where required depending on the application. The material is a 100 % woven Polyester PVC coated front and back, finished with an acrylic lacquer on both sides. It has a textured surface on both sides to ensure maximum bond strength is achieved. Cortex 0560FR is flame retardant to B-s3-d0 (EN13501-1) and is highly UV resistant, watertight and airtight.

Packaging/Storage/Shelf Life

- Rolls can be slit from 50mm-500mm with the release liner slit where required.
- Avoid excessive heat for a prolonged period of time.
- Store in a cool dry place not exceeding 30°C. Keep away from moisture.
- The shelf life is at least 12 months from the date of manufacture under the above-mentioned conditions.

Technical Data

Fire resistance	EN13501-1	B-s3-d0
Thickness		0.50mm
Tensile strength	DIN EN ISO 1421/V1	2200 / 2100 N/50mm
Elongation @ Max Tensile strength	EN 12311-2:2013	28 / 31 %
Tear strength	DIN 53363	230 / 230 N
Temperature resistance	DIN EN 1876-1/PA07.04 intern	-25°C / +70°C
UV resistance	Exposed	10+ years
Equivalent air layer thickness (Sd value)	EN 1931	13m
Water vapour permeability (μ)	EN 1931	23,726
Vapour resistance	EN 1931	59 MNs/g
Elongation at break (Warp) %	DIN EN ISO 1421	25.73
Elongation at break (Weft) %	DIN EN ISO 1421	29.48
Crack resistance	DIN 53359A	100000 x



Adhesive Coating Characteristics

Characteristics	Performance*
Adhesive Carrier	Polyester Scrim
Adhesive System	Acrylic Dispersion
Release Liner	Silicone-coated Paper, Brown
Peel Adhesion	≥30 N/25mm (DIN EN 1939)
Shear Adhesion	500g/625mm ² (DIN EN 1943)
Processing Temperature	+5°C recommended, processable from -10°C
Temperature resistance	-30°C to +100°C
Tack	Excellent
Condensation Water Resistance	High
Ageing Resistance	Very High

* Values refer to adhesive coating layer only

Cortex 0771FR Paste Adhesive

Description

Cortex 0771FR Paste Adhesive is a high-quality, neutral, elastic one-component joint sealant based on fast skinning silicones. Can be used in applications which require sealants of fire-retardant properties.

Cortex 0771FR is very easy to apply, colourfast and UV resistant, with permanent elastic after curing. The paste has very good adhesion on many materials, low modulus and especially developed for EPDM applications.

Applications

Bonding and sealing of membranes and onto other building substrates. Surfaces to be clean, dry and free of dust, grease and oils etc.

Application Method

Apply with a manual or pneumatic caulking gun.

Cleaning: Clean with Cortex 0795 Cleaning Wash immediately after use.

Repair: With the same material.

Health and Safety Recommendations

Take the usual labour hygiene into account. Consult the packaging label for more information.

Remarks

- Do not use on natural stones like marble, granite (staining).
- Cortex 0771FR Paste Adhesive is not suitable for applications with permanent water stress (e.g. horizontal roof sealing joints below the water level).

Packaging

Colour: Black

Packaging: 600ml cartridge

Shelf life: 12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.

Substrates: All usual building substrates.

Nature: Clean, dry, free of dust and grease.

Surface preparation: Porous surfaces in water loaded applications should be primed with Cortex Primer. No primer needed for non-porous substrates. All loose or flaking surface coatings, and old sealant and mastic joints should be removed before application.

There is no adhesion on PE, PP, PTFE (Teflon®). We recommend a preliminary compatibility test. Given the wide variety of EPDM-substrates, we always recommend a preliminary adhesion test.



Technical Data

Fire resistance	B-s1-d0 (EN13501-1)
Chemical Base	Oxime
Consistency	Stable Paste
Curing Time	2mm/24 hours (23°C, %50 R.H)
Shore A	20, DIN 53 505 (N/mm ²)
Density	1.40 ± 0.03gr/cm ³
Elongation	462%
Maximum Allowed Distortion	25%
Temperature Resistance	-50 °C -120 °C
Tensile Strength	1.0 MPa
Application Temperature	5°C - 40°C

* DIN EN ISO 20811:1992-08 Textiles • Determination of resistance of textile fabrics to water penetration; hydrostatic pressure test

Non-Combustible Breather Membrane A2 (EN 13501-1)



Description

Non-Combustible Breather Membrane for façades is based on new innovative technology. The membrane meets Euroclass A2 (EN 13501-1) meaning it can be integrated into façades that demand the highest levels of fire protection.

The structure is made from fibreglass cloth impregnated with a polymer composition to form a membrane which is waterproof, vapour-permeable and non-combustible. Cortex Non-Combustible Breather Membrane can be laid directly onto sheathing board or insulation and is suitable for façades with open or closed joints.

Technical Data

Colour	White/Black
Reaction to Fire	A2-s1,d0 Non-Combustible (EN13501-1+A1)
Roll Size	1500mm x 50m
Thickness	0.22 ± 0.05mm
Low Temperature Flexibility	-20°C
UV resistance	Not affected by UV exposure
Tensile Strength	Longitudinal: 420 - 470 N/50mm Transverse: 490 - 620 N/50mm
Tear Strength	Longitudinal: 50 - 90 N Transverse: 30 - 70 N
Water Tightness	Class W2 (EN 13859-2)
Water Vapour Transmission (Sd)	0.04 (EN ISO 12572)
Vapour Resistance	0.20 MNs/g