

Cortex 0500FR DPC/Membrane

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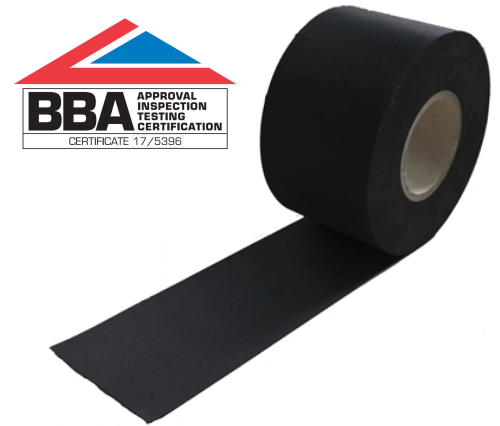
Description

Cortex 0500FR is a flame-retardant flexible dpc / membrane used for sealing interfaces to provide an airtight and weather tight seal on construction projects.

It has a textured surface on both sides to ensure maximum bond strength is achieved. Cortex 0500FR is flame retardant to B-s3-d0 (EN13501-1), is highly UV resistant, watertight and airtight.

Roll Length: 20m

Roll Width: 50mm-1500mm



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	-40°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
Resistance to Static Load	EN 12730:2015	20 kg
Resistance to Impact	EN 12691:2018	200 mm

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Application:

Installation of Cortex 0500FR must follow normal good practice for the detailing of a DPC, as set out in PD 6697:2010, and must be in accordance with the relevant clauses of BS 8000-0:2014, BS 8000-3:2001, BS8000-4:1989, BS 8215:1991, and BRE Digest 380.

Care should be taken to avoid impact damage from sharp objects during installation.

Jointing & Surface Fixing:

- A minimum of 100mm is to be joined/adhered, using Cortex 0771FR Paste Adhesive or Cortex Double Sided Tape.
- Solco DPC Fixing Strip and pins should be used in the installation.

Fixing in a Cavity:

- Bond the vertical portion of the cavity tray to the inner leaf with either the paste adhesive or Double Sided Tape.
- Position the DPC fixing strip approximately 5mm below the top edge of the cavity tray. At one end of the fixing strip use a bradawl to form a pilot hole (through DPC and tape) into the insulation, using the hole in the fixing strip as a guide.
- Push the fixing pin through the fixing strip into the pilot hole. The fir tree portion of the fixing pin will secure the fixing strip and cavity tray in position.
- Repeat for each hole of the fixing strip.

Installation Practice:

- The DPC must extend through the full thickness of the wall or wall-leaf, including pointing, applied rendering, or other facing material.
- All lap joints in the DPC must have a minimum of 100mm overlap, be completely sealed with suitable tape, and supported by a suitable joint system in accordance with Solco's instructions.
- The preformed cavity tray units must be used at stop ends and at all corners or change in levels of cavity trays.
- Where used as a cavity tray, the DPC laps must be sealed.

When using the product with boot lintels or similar constructions, it is recommended that the material is installed following the lintel profile, where appropriate.

Damaged areas of the product can be repaired prior to being installed by cutting out and/or replacing the damaged section, ensuring joints are correctly sealed. Once covered, the product cannot be repaired.

Cleaning Cavities:

As with other DPC materials, damage can occur during the cleaning of mortar droppings from the DPC unless care is taken. The following recommendations minimise damage occurring:

- Cavity battens should be used to prevent excessive amounts of mortar droppings from reaching the DPC.
- Mortar droppings should be removed before they have had time to harden.
- Implements such as steel rods should never be used for cleaning.
- The DPC should be examined for damage as work proceeds.

