APPLICATION DATA SHEET

ENVIROGRAF®

AP038-03-2020

Product Number: 38

Intumescent Material ES/MP

ES/MP; ES/MP/900; ES/MP/FC; ES/MP/GP; ES/MP/V; ES/MP/PLY

PLEASE READ CAREFULLY

Many panelled doors are found in a damp cold atmosphere in buildings that have, in some cases, been empty for many years. It is essential that the property is dried out first and the heating has been turned on for at least two months to allow for any shrinkage of the moisture-filled timber. Otherwise, if treated before the doors have dried out thoroughly, the paper will buckle and the panels will shrink and crack. In recent years, we have seen doors in which (after drying out) there was a gap between the panel and the stile of up to 10mm width. In extreme cases, check over the building with a moisture meter. For new panelled door manufacture, Envirograf® Membrane cloth (ES/MP), can be adhered sandwiched between two panels, using Product 46 (IA intumescent adhesive) at a rate of 4m² per litre.

IMPORTANT a spirit based undercoat or topcoat **must** be applied to the card.

GENERAL REQUIREMENTS FOR ALL DOORS

All doors with a thickness of stiles and rails between 30mm and 35mm must have the stiles, rails, and beads coated with the Envirograf® intumescent coating system (clear or white finish). Doors with stiles and rails 36mm or more thick only need the beads to be coated with the Envirograf® intumescent coating system.

PREPARATION OF EXISTING VARNISHED VENEERED DOORS

Wash the doors down with detergent water and clean off with warm, clean water. Ensure that all wax and grease has been cleaned off. An Envirograf® de-waxing fluid is available if required. Rub all the panels with coarse glass paper and be certain to dust off and remove all flaking varnish and ensure all corners are given a good key, then apply one coat of the supplied **ENVIROGRAF® PRODUCT 93 (STABOND)**

BONDING/SEALING LIQUID TO THE PANELS ONLY.

Coat the beads and (if necessary) the stiles and rails with Envirograf® Product 42 (HWAP adhesion primer) at 12m² per litre (this dries in about 30 minutes). When dry apply two coats of Envirograf® Product 42 HW02N intumescent coating at 8m² per litre per coat (this dries in about 1 to 1½ hours). Cut the Envirograf® veneer or plywood panels to the size of each door panel, then evenly apply with a comb applicator Envirograf® Product 46 (IA water-based intumescent adhesive) to both the grey flecked side and to each door panel to ensure a perfect bond. Once the adhesive has been applied on both surfaces insert the Envirograf® veneer or plywood panels on the door panel. Once everything is dry, apply the Envirograf® clear top coat to the whole door. **Do not apply any adhesion primer to the panels.**

Continued:

PREPARATION OF EXISTING PAINTED DOORS

Wash the doors down with detergent water and clean off with warm, clean water. Ensure that all wax and grease has been cleaned off. An Envirograf® de-waxing fluid is available if required. Rub all the panels with coarse glass paper and be certain to dust off and remove all flaking paint and ensure all corners are given a good key, then apply one coat of the supplied **ENVIROGRAF® PRODUCT 93 (STABOND) BONDING/SEALING LIQUID TO THE PANELS ONLY.**

Coat the beads and (if necessary) the stiles and rails with Envirograf® Product 42 (HWAP adhesion primer) at 12m² per litre (this dries in about 30 minutes). When dry, apply two coats of Envirograf® Product 42 HW01F intumescent coating to the beads, stiles, and rails at 8m² per litre per coat. Cut the white card to the size of the door panels then evenly apply with a comb applicator Envirograf® Product 46 (IA water-based intumescent adhesive) to both the grey flecked side and to each door panel to ensure a perfect bond. Once the adhesive has been applied on both surfaces insert the white card on the door panel. Once everything is dry, apply the Envirograf® Product 42 HW04/S undercoat and HW top coat to the door and panels. **Do not apply any adhesion primer to the panels.**

IMPORTANT

Only the risk side (i.e. the room side) of the door needs to be upgraded. If the door is at the top of stairs or is separating from a corridor, then both sides of the door must be treated.

MAKING NEW PANELLED DOORS

Apply the protection cloth between two pieces of plywood using Envirograf® Product 46 (IA water-based intumescent adhesive) to adhere together. The panels must be rebated into the stiles and rails by 15mm and adhered in with the same adhesive.

CHEMICALLY-STRIPPED DOORS

If a door has been chemically-stripped, the door must be left for two weeks and be regularly washed with clean water to extract all the stripping chemicals from the wood.

REMEMBER THE INTUMESCENT DOOR SEALS, LOCK PROTECTION, AND PROTECTED DOOR CLOSERS!

A fire door is not a fire door without intumescent seals on the door or frame, plus intumescent paper must be placed around locks (see Envirograf® Products 69, 71, and 100). Protected door closers should be fitted, such as the all-in-one Envirograf® Product 71A door closer 3-hinge set with factory-fitted intumescent fire protection. Door stops only need to be 12mm thick or less, NOT 25mm THICK!

TECHNICAL DATA SHEET

ENVIROGRAF®

TD038-03-2020

Product Number: 38

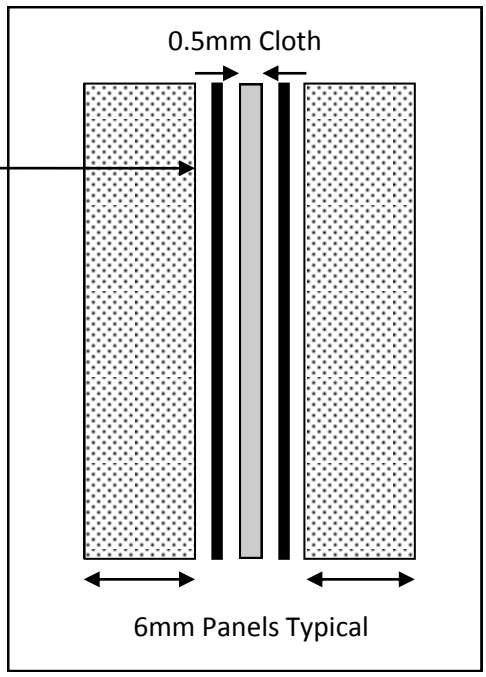
Intumescent Material ES/MP

ES/MP; ES/MP/900; ES/MP/FC; ES/MP/GP; ES/MP/V; ES/MP/PLY

Description:

Intumescent cloth with thin white fireproof card face (1mm thick), for upgrading flat panelled doors to fire-rated doors. Also available with veneer or Birch/Gaboon plywood. Intumescent cloth can be supplied independently for use by door manufacturers. Intumescent cloth can be used between 6mm plywood panels if new doors are being made, giving 30 minutes of fire protection. The product is applied with Envirograf® Product 46 (IA) adhesive. After fitting, the intumescent cloth/plywood or intumescent cloth/veneer may be appropriately painted or varnished. Applied to panels in doors, in conjunction with Product 42. The white fireproof card **must** be painted using a spirit based topcoat or undercoat.

Example of how to sandwich intumescent cloth ES/MP between two 6mm panels



Material Specification:

Multigraf Intumescent material chemical constitution	
Mineral Wool Fibre	20-70% by weight
Exfoliating Graphite	20-60% by weight
Organic Binder (including adhesive coating)	5.0-30% by weight

This Product Can Come With A Range Of Wood Veneer Finishes.

Test Details:

	Integrity	Insulation
Chiltern RF04083	51 Minutes	51 Minutes
Chiltern RF02059	34 Minutes	30 Minutes

TECHNICAL DATA SHEET

ENVIROGRAF®

TD100-10-2014

Product Number: 100

Intumescent Fire & Smoke Seals

Description:

Plastic intumescent fire and smoke seals. Can be supplied with or without smoke seals and in a range of sizes and in two lengths (1050mm and 2100mm). They are fitted with self-adhesive backing to adhere into the rebate. Smoke seals can be either brush or rubber. NB: as smoke can kill before a fire, it is always best to fit intumescent seals with smoke seals. Please also see Product 101 Push-Fit Seals

Use:

Used for fitting to doors, door frames and windows. Once fitted the plastic facing of the seals can be painted, although the brush or rubber smoke seal must NOT be painted.

Ordering references:

REF	SIZE	PROTECTION
IS13	10mm x 3mm	30 minutes
IS13/S	10mm x 3mm with brush	30 minutes
IS14	10mm x 4mm	30 minutes
IS14/S	10mm x 4mm with brush	30 minutes
IS15	15mm x 3mm	60 minutes
IS15/S	15mm x 3mm with brush	60 minutes
IS154	15mm x 4mm	60 minutes
IS154/S	15mm x 4mm with brush	60 minutes
IS24	20mm x 4mm	60 minutes
IS24/S	20mm x 4mm with brush	60 minutes

All of the above are available in brown or white and 1050mm or 2100mm lengths – please state when ordering.

All of the above are available with 5mm, 7mm or 10mm brush with or without fin. Standard brush colours are black, brown, grey or white. Please state when ordering.

12mm or 15mm brushes are available only in white or grey – there is an added charge for these.

If you require rubber seals there is an added charge. The only types that can be used in the IS Range are the angled and straight types.
Angled – 6mm or 9mm
Straight – 5mm, 7mm or 10mm

Important – 1-1½mm of the brush or rubber seal is held within the holder. Brush with fin is always ½mm higher than regular brush. Make allowance for this when specifying.

APPLICATION DATA SHEET

ENVIROGRAF®

AP100-10-2018

Product Number: 100

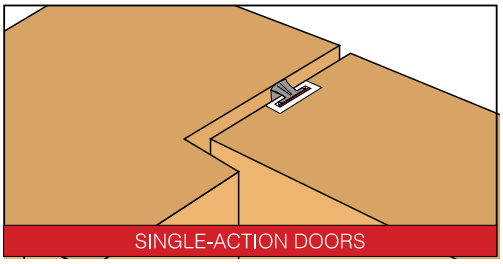
Intumescent Fire & Smoke Seals

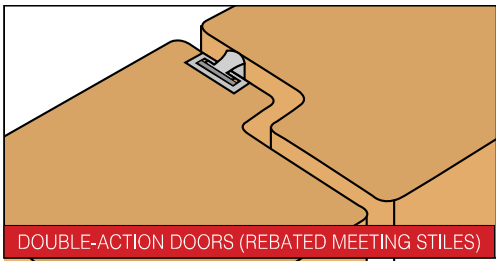
Description:

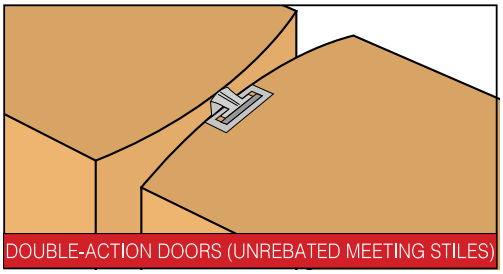
Plastic intumescent fire and smoke seals. Can be supplied with or without smoke seals and in a range of sizes and in two lengths (1050mm and 2100mm). They are fitted with self-adhesive backing to adhere into the rebate. Smoke seals can be either brush or rubber. NB: as smoke can kill before a fire, it is always best to fit intumescent seals with smoke seals. Please also see Product 101 Push-Fit Seals

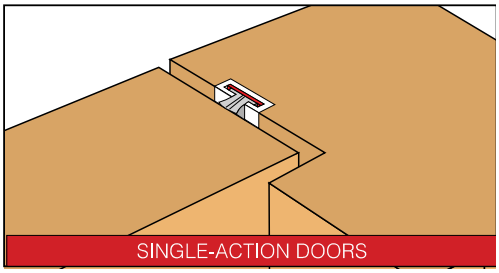
Application:

Can be fitted into doors, door frames and windows. Make a rebate in the frame or door to suit the size of the holder, adding 1mm to the width of the holder to allow for shrinkage of timber/paint. Peel off backing paper and fit seal into routed channel. Panel pins can be used for extra security of fixing if required. Once fitted the plastic facing of the seals can be painted, although the brush or rubber smoke seal must NOT be painted.









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