



# HSP FIRE PROTECTION

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## **ENVIROGRAF® PRODUCT 38 CARDED OR VENEERED INTUMESCENT MATERIAL FOR UPGRADING FLAT PANELLED DOORS TO 30 MINUTE FIRE PROTECTION**

### **INTRODUCTION**

Doors must have a panel thickness of 6mm or more. When the rails and stiles are 30mm to 34mm thick, coat the rails, stiles and beads with an Envirograf HW Coating system. When the rails and stiles are 35mm thick or more only beads have to be coated. Normally only the risk side of the door is treated. However if the door is within a corridor both sides of the door should be treated.

### **PREPARATION**

Ensure surface is sound, clean, dry and free from dirt, grease, wax, loose material and surface contamination. Sand down. Dust down. Ensure working area is clean, dry and warm

### **PAINTED DOORS**

Cut the carded intumescent material using a sharp knife to suit the panels.

Prime bare timber panels with Envirograf Stabond. Allow to dry (approx 1 hour)

Apply Envirograf Product 46 - IA Adhesive, with a comb applicator to the panel and to the rough side of the Intumescent Paper and adhere together. Allow overnight dry. (Allow one litre for each 5m<sup>2</sup> intumescent material)

On the beading, rails and stiles apply the following as applicable:-

Apply 1 coat HWAP/WB Adhesion Primer at 12m<sup>2</sup>/litre to previously painted surfaces

Apply 2 coats HW01F White Intumescent coating at 8m<sup>2</sup>/litre per coat

Apply 1 or 2 coats HW04/TCO matt or satin in white or selected colour at 10m<sup>2</sup>/litre per coat

### **VARNISHED DOORS**

Cut the ES/MP/V Veneered intumescent material with a sharp knife to suit the panels.

Prime bare timber panels with Envirograf Stabond. Allow to dry (approx 1 hour)

Apply Envirograf Product 46 - IA Adhesive, with a comb applicator to the panel and to the back of the veneered intumescent and adhere together. Allow overnight dry. (Allow 1 litre of IA adhesive for each 5m<sup>2</sup> intumescent material)

The veneer can then be stained if required

On the beading, rails and stiles apply the following as applicable:-

Apply 1 coat HWAP/WB Adhesion Primer at 12m<sup>2</sup>/litre to previously coated surfaces.

Apply 2 coats HW02E Clear intumescent coating at 8m<sup>2</sup>/litre per coat

Apply 1 or 2 coats HW/03/UV Clear Topcoat matt or satin at 12m<sup>2</sup>/litre per coat

### **NEW DOORS**

For new panelled doors being made from solid timber, Intumescent material ES/MP can be adhered and sandwiched between the two panels, using IA Adhesive to upgrade the panels to 30min fire protection (Allow 1 litre of IA adhesive for each 5m<sup>2</sup> intumescent material)

### **NOTES**

All Fire Doors must be fitted with Intumescent seals.

Envirograf® Product 100 - Fire & Smoke Seals for rebated doors.

Envirograf® Product 69 - Surface Mounted Fire & Smoke Seals for around the frames (No routing necessary).

Envirograf® Product 71 - Door locks, hinges etc must be fitted with Intumescent Hinge, Lock and Closer Protection.

**The above method will upgrade suitable doors to 30 minute fire rated doors to achieve compliance with BS476 Part 22.**

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