



# HSP FIRE PROTECTION

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## **UPGRADING LEDGE & BRACED DOORS WITH ENVIROGRAF® PRODUCTS TO BS476 PART 22, 30 mins FIRE PROTECTION**

**Method 1:** If the boards of the door are at least 20mm thick and the thickness of the tongue and groove joints between the boards is MORE than 10mm .

**Method 2:** If the boards of the door are less than 20mm thick and/or the tongue and groove joints between the boards of the door are LESS than 10mm.

Note: Before coating ensure all surfaces are sound, clean, dry and free from dirt, grease, wax etc.

### **METHOD 1**

If the boards of the door are at least 20mm thick and the thickness of the tongue & groove joints is more than 10mm, a Ledge and Braced door may be upgraded to 30 minutes fire protection with either:-

- (a) Clear Finish – Apply 2 coats of HW02 Clear Intumescent Coating at 8m<sup>2</sup> per litre per coat and 1 coat of HW/03/UV Clear Overcoat, matt or satin at 10m<sup>2</sup> per litre per coat to both sides of the door.
- (b) Painted Finish – Apply 2 coats of HW01 Intumescent Paint at 8m<sup>2</sup> per litre per coat and 1 or 2 coats of HW04 /TCO matt, satin or gloss at 10m<sup>2</sup> per litre per coat to both sides of the door.

If the door has been previously coated, 1 coat of HW/AP Adhesion Primer should be used prior to the application of HW01 or HW02. **Ensure that HW01 or HW02 is well brushed into joints.**

### **METHOD 2**

If the boards of the door are less than 20mm thick and/or thickness of the tongue & groove joints are less than 10mm, it is not possible to upgrade a ledge and braced door to 30 minutes fire protection by simply coating it. However, by adopting the following method it is possible to upgrade the door to 30 mins fire protection.

1. Sand down existing coatings and ensure all surfaces are clean, dry and free from dirt, grease, wax etc. Fill grooves on risk side with AM Intumescent Mastic
2. Cut 12mm ply inset panels to risk side of the door. Sandwich ES/MP Intumescent Membrane between door and panel using IA Adhesive. Securely fix panels to timber with screws etc.
3. Apply 1 coat HW/AP Adhesion Primer to all previously painted surfaces on both sides of the door. Allow 2 hours to dry.
4. Apply HW01 & HW/TCO intumescent paint system or HW02 & HW/03/UV intumescent clear system as outlined above.

### **NOTES**

Install intumescent fire & smoke seals.

Envirograf Product 69 - ES/SDS Surface Mounted Fire & Smoke Seal Kits may be more appropriate which are adhered and pinned to the door frame butting up to the door stop.

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 door closer protection

**The above method will upgrade suitable doors to 30 and 60 minute fire rating to achieve compliance with BS 476 Part 22**

04.10