



FIRE, DRAUGHT, WEATHER & ACOUSTIC SEALS

Tel: 01489 885792 Fax: 01489 579391

Web: www.wis-ltd.com Email: sales@wis-ltd.com

UPGRADE SYSTEM FOR INTERNAL PANEL DOORS

Read following instructions carefully before starting work.

The system consists of an intumescent paper with either a thin white card finish (suitable for painting) or a gaboon plywood finish (suitable for stain/varnish or paint), that can be laminated to the face of old flat panel doors to upgrade and provide either FD20 or FD30 (with intumescent fireseals fitted) rating. The product has been tested to comply with BS476 part 22:1987.

Generally it is only necessary to treat the risk side if a room door (such as a bedroom or lounge door) opens onto a corridor. However, if the door is positioned in a corridor or on a staircase, then both sides need to be treated. We recommend you seek guidance from Building Control/Fire Officer to establish what you require. If any doubt we recommend that both sides of the door are treated.



Check and satisfy yourself that the door is worthy of upgrading, doors must be sound with no movement; loose joints should be raked and glued using IA (low pressure intumescent) adhesive and clamped overnight. Panel cracks should be raked and filled with IM intumescent mastic followed by two coats of HW system paint/varnish to both sides.

Doors must have rails and stiles with a minimum thickness of 35mm, the panels should be a minimum 6mm thickness, retained by beads and fixed into position with pins.

Procedure

Remove the door and de-furniture.

Check the width of the door against the frame width and adjust to allow a maximum gap around both sides and head of door of 3 - 4mm when re-hung. The threshold gap of the door must not exceed 10mm, if necessary plant on a timber fillet following the details for loose joints.

Route a 10x4mm groove to both sides and head of door central to the door thickness, fit intumescent fire/smoke seals.

Cut out and fit 3 new 100mm fire rated hinges, the middle hinge should be fitted 400mm down from the top hinge, when fitting ensure an intumescent pad is fitted under both sides of each hinge. Re-furniture the door fitting intumescent paper under all furniture on the risk side, mortise locks should be removed and wrapped in intumescent paper and replaced.

The door should now be re-hung and an overhead automatic door closure fitted, with intumescent paper fitted between body of closer and door face as well as under other parts that fit onto the door. The door should be opened at 90 degrees and allowed to close under the strength of the door closure only, the door should latch shut 10 times out of 10. *(If you require the door to be kept open an automatic acoustic fire door retainer should be fitted, again with intumescent paper fitted between body and door – contact sales department for further information on door retainers)*

Upgrading of the risk side

Fitting Intumescent Material to Panel Area

Wash down door and remove any loose paint, grease or wax. The panelled areas should be rubbed down to provide a key for the adhesive, if the beads are fixed a hand router or sharp chisel should be used to cut out a square edge between the bead and panel face. This is so the intumescent material is fitted into a square edge against the bead.

The intumescent card/ply should be cut to the exact size of the panel and adhesive should be applied to the card/ply as well as to the door panel using a toothed comb. The card/ply should then be fixed to the panel; use a wallpaper seam roller to remove any trapped air, excess adhesive can be removed using a damp cloth. Allow to full dry (approx 3-4 hours) before any other treatment is applied.

Beads, rails and stiles should then be rubbed down and treated with appropriate HW series coating (as detailed below)

Application of coatings to door

Apply HW system to the risk side of the door as per instructions.

Painted Finish using DK1 or DK3 kits	Clear/Varnish Finish using DK3 kits only
1 coat of HW primer	1 coat of HW primer
2 coats of HW01 white intumescent basecoat	2 coats of HW02 clear intumescent basecoat
1 coat of HW04 white undercoat	1 coat of HW03E clear topcoat (gloss, satin or matt)
<i>HW04 is a protective topcoat for HW01 basecoat and not a finished surface; however it is an ideal undercoat.</i>	<i>If staining is required use a proprietary water based stain only, ensure the stain is completely dry before applying the HW system.</i>
<i>The decorative top coat can now be applied to the total door area.</i>	<i>Please note we recommend that the two coats of HW02 and one coat HW03 be applied on the same day to avoid HW02 being exposed to the moisture in the air overnight</i>

Fire Door Signs must be fitted at eye level both sides of the door.

The upgrading is now complete.

PRODUCT INFORMATION

The products are supplied in doors kits to provide either FD20 or FD30 rating. The kits are sufficient to treat the fire risk side of one door, if the risk is unknown or from both sides two kits will be required per door. We recommend you check with your building control/fire officer to establish what risk side is and fire rating required for the door. *(Please note the door kits on there own will only provide an FD20 rating, the intumescent fire seals kit must be fitted if FD30 is required)*

Door Kits	Contents
White Card – DK1	1200x1000 card, 310ml adhesive, ¼ litre primer, ½ litre basecoat, ¼ litre undercoat
Gaboon Ply – DK3/S (Satin)	1200x1200 ply, ¼ litre adhesive, ¼ litre primer, ½ litre clear basecoat, ¼ litre topcoat
Gaboon Ply – DK3/G (Gloss)	1200x1200 ply, ¼ litre adhesive, ¼ litre primer, ½ litre clear basecoat, ¼ litre topcoat
Gaboon Ply – DK3/M (Matt)	1200x1200 ply, ¼ litre adhesive, ¼ litre primer, ½ litre clear basecoat, ¼ litre topcoat

DK1 kit suitable for paint finish only – DK3 kit suitable for clear/varnish finish or paint finish

Fire Seal Kits	Contents
FS 1 kit	5 Fire/Smoke Seals 1050mm x 10mm x 4mm – White or Brown 3 Hinge Strips 300mm x 36mm x 2mm 1 Intumescent Paper 500mm x 500mm 2 'Fire Door Keep Shut' Signs S/A PVC
FS 2 kit	5 Fire/Smoke Seals 1050mm x 10mm x 4mm – White or Brown 3 Hinge Strips 300mm x 36mm x 2mm 1 Intumescent Paper 500mm x 500mm 2 'Fire Door Keep Locked Shut' Signs S/A PVC
FS 3 kit	5 Fire/Smoke Seals 1050mm x 10mm x 4mm – White or Brown 3 Hinge Strips 300mm x 36mm x 2mm 1 Intumescent Paper 500mm x 500mm 2 'Automatic Fire Door Keep Clear' Signs S/A PVC

Other products available

Automatic Acoustic Fire Door Retainers ~ Fire/Smoke Letterplate Systems
Fire Door Hinges ~ Fire Door Closers ~ Fire Door & Fire Exit Signs

TEL 01489 885792

FAX 0800 731 4683

EMAIL sales@wis-ltd.com