

# INTUFIRE® ACRYLIC

## DESCRIPTION

Intufire® Acrylic sealant is a waterborne one-part fire-resistant and acoustic rated joint sealant which provides a firm, yet flexible seal to joints in a wide variety of fire-rated structures where fire resistance up to 4 hours is required. Its special intumescent properties cause the sealant to swell up and char in the presence of heat, preventing the spread of smoke and fire through the joint.

## KEY FEATURES

- Good adhesion to timber, plasterboard, masonry, blockwork, plaster, concrete and many other common building surfaces
- Formulated using a special acrylic emulsion to provide a firm seal whilst retaining a degree of flexibility
- Up to 4 hours fire resistance
- Reduces sound transmission in joints
- Suitable for horizontal and vertical joints without compromising fire rating performance
- Joint movement capability of  $\pm 12.5\%$
- Over-paintable with solvent and water based paints
- Will not support combustion
- Water based, solvent & halogen free, water clean up
- For use in joint up to 35mm

## TECHNICAL APPROVALS

### Fire Performance

- An assessment of the fire performance when used to seal between the frame of a timber doorset and the surrounding supporting construction against the adopted criteria of BS 476: Part 20 and 22: 1987 report No. P113222-1001A Issue 1
- BS EN 1366-3 with additional guidelines from BS EN 1366-4.
- BS EN 1634-1 2014 + A1 2018 – FD30 & FD60

### Acoustic Performance

- Tested in accordance with BS EN ISO 140-3: 1995

### Emission Performance

- Eurofins VOC Indoor Air Comfort GOLD
- Eurofins VOC M1

## USES

- Sealing joints, voids and irregular holes where fire resistance up to 4 hours is required.
- Ideal for sealing joints, voids and irregular holes in fire walls, partitions, door architraves, service penetrations, floors and other structures.
- For perimeter sealing of internal, fire rated screens, partitions, service penetrations and door or window frames.
- To maintain integrity when sealing around pipes, services and cables.
- Sealing fire rated ductwork.

## PERFORMANCE

**Adhesion:** Good adhesion when applied to wood, plaster, plasterboard, blockwork.

**Base technology:** Acrylic emulsion

**Chemical resistance:** Fair to dilute acids and alkali's

**Curing system:** Evaporation

**Hardness (Shore A 25°C):** Approx 50

**ISO 11600 classification:** F-12.5-P

**Mould resistance:** Contains a fungicide

**Movement accommodation:**  $\pm 12.5\%$

**Service temperature range:** -15°C to +70°C

**Slump:** Nil

**Specific gravity:** 1.56 - 1.60 g/cm3

**Tensile strength:** ~ 1.1 N/mm2

**Elongation at break:** 500%

**UV resistance:** Good

**Paintability:** Can be overpainted

**Service Life (predicted):** 20 Years

**Shrinkage:** <25%

**Staining:** Nil

**UV Resistance:** Good

**Volatile Content:** <25%

**Acoustic Rating:** 40(-3;-8)dB Rw(C;CTtr) BS EN ISO 717-1:1997

## APPLICATION

### PROPERTIES

**Application temperature range:** +5°C to +30°C

**Curing Rate:** No curing reaction takes place. Dries through evaporation.

**Shelf Life:** 12 months (Do not store below 5°C)

**Skinning Time:** Skin forms within 25 minutes at 20°C @ 65% RH.

**Tack Free:** 75 minutes

**Working Time:** Approximately 5 minutes.

### INSTRUCTIONS

**Joint Design:** Please consult the **Technical Information Sheet** entitled 'Joint design for cartridge based products' prior to application.

**Surface Preparation:** All surfaces must be clean, dry and free from frost, grease and loose materials. In situations where an especially neat finish is required, use masking tape to cover the face edges of the joint and remove immediately once tooling has been completed. Cut the tip of the screw thread off the cartridge and screw onto the nozzle. Cut nozzle to the correct diameter for the joint size, apply using a skeleton gun. Gun sealant into joints ensuring there are no voids or gaps and that the sealant is in full contact with both joint surfaces.

**Tooling:** Tool immediately after sealant has been applied within the working time for the product. A degree of shrinkage will occur on drying. Where a flush finish is required, it is recommended that the joint be filled/tooled slightly proud to compensate.

**Hodgson**  
SEALANTS 

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## EQUIPMENT

A selection of useful tools and accessories is also available and includes trimming knives, rollers etc and hand/air operated guns for cartridge sealant products.

## PACKAGING

310ml cartridges - 25 per case (Also available in 600ml sausage upon request).

Colours: White

## ESTIMATING QUANTITIES

Number of cartridges =  $\frac{\text{Joint depth (mm)} \times \text{Joint width (mm)}}{\text{Length (M)}}$

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Volume of cartridge (ml)

This calculation does not allow for wastage.

## LIMITATIONS

- Not for use in permanently damp or immersed joints.
- Do not use on substrates that bleed oils or plasticisers.
- Do not use in joints where the depth exceeds half of the width without a suitable backing material.

## HEALTH AND SAFETY

- Non-flammable.
- Wash hands immediately after use.
- See Product Safety Data Sheet for further information.

## GENERAL

Intufire® Acrylic is part of a full range of fire resistant sealants designed for the professional user. For further information please contact Customer Care Team or visit our Website.

The information given in this product data sheet is based on laboratory tests and experience which we believe to be correct. Properties quoted are typical and do not therefore constitute a specification. In view of the wide range and variability of substrates, we would advise that our product should be tested by the user to establish suitability for its intended application. E & OE.

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