Technical Data Sheet

Date of compilation: 31/05/2023

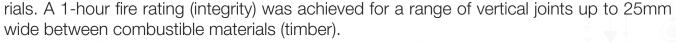# ARC INTUMESCENT & ACOUSTIC SEALANT

DESCRIPTION

Arc Intumescent & Acoustic Sealant is a halogen free, polymer emulsion-based sealant that swells when subjected to temperatures in excess of 125ºC and forms a char coat that restricts the passage of smoke and fire. It is easily applied and dries to a flexible and smooth surfaced material which is readily over paintable. It has excellent adhesion to a wide range of substrates and will not harden or crack with age.

SPECIFICATION COMPLIANCE

Arc Intumescent & Acoustic Sealant has been independently tested to the following assessments:

-BS EN 1366-3: 2004 & BS EN 1366-4: 2006 Tested at Bodycote Warrington Fire, report No. 173658A achieving 4-hour integrity and insulation rating for a range of linear and penetration seals.

-an indicative fire test based on BS476 Part 20 & 22 at Warrington Fire Research and achieved a 4-hour fire rating (integrity) for a range of vertical and horizontal joints up to 35mm wide between various non-combustible construction materials. A 1-hour fire rating (integrity) was achieved for a range of vertical joints up to 25mm wide between combustible materials (timber).

-BS EN ISO 10140-2: 2010 Measurement of Airborne Sound Insulation of Building elements.

University of Salford reports 2612 – 76, 77, 79 - 81. The sealant maintained the integrity of a plasterboard partition wall with a Sound Reduction Index of 55Db.

-Classification of fire resistance data from test report FIRES-CR-199-16AUPE in accordance with EN13501-2 2007 +A1 2009 when tested as penetration seals round metal pipes and cables according to EN 1366-3 in a flexible wall.

VOC test report classification – M1 and Indoor Air Comfort GOLD®

APPLICATIONS

Arc Intumescent & Acoustic Sealant forms a fire and smoke seal in joints up to 35mm wide without slumping. It is ideal for sealing joints in and around internal partitions, lap joints in fire-rated cladding and for sealing between fire doors and fire-rated walls & floors. It is recommended that a sealant depth of at least 8 mm be applied.

If the sealant is to be overpainted, building regulations may require a fire-resistant coating.

Phone: +353 (0)402 41200
Fax: +353(0)402 24168
Email: sales@arcbuildingproducts.ie
Web: www.arcbuildingproducts.ie
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LIMITATIONS

Arc Intumescent & Acoustic Sealant acrylic is not suitable in joints where movement exceeds ± 7.5% of joint width, or in external joints.

TECHNICAL DATA

Movement Accommodation	± 7.5% Conforms to ISO 11600 7.5P
Skinning Time	15 mins to 1 hour depending on conditions
Cure time:	5 to 15 days for 15mm x 20mm bead
Hardness Shore A	40-50
Tensile Strength (100%)	0.2 MPa
Temperature Resistance:	-20oC to +60oC (intermittent)
Paintability	With most paints
Application Temperature	+5°C to 40°C
Cleaning	Uncured sealant with water.
Shelf Life	Min. 18 months when stored in unopened containers as recommended.
Specific Gravity	1.60 – 1.68
Coverage	Approx. 1m using a 20mm x 15mm bead
Storage	Store in cool dry conditions. PROTECT FROM FROST.

APPLICATION INSTRUCTIONS

To achieve a high-quality joint, clean all surfaces, remove dust and ensure surfaces are dry. Non-porous surfaces should be degreased using a suitable degreasing agent. Highly porous surfaces should be sealed with a suitable primer. Apply masking tape to each side of joint and gun sealant firmly into joint, smoothing off with a wetted spatula. Masking tape should be removed within 10 minutes of application.

NOTE

All products should be sold in accordance with the manufacturer's instructions. The manufacturer cannot be held responsible where conditions of use are beyond our control. Full information and advice is freely available from our Technical Services Department e-mail technical@arcbuildingproducts.ie. Whilst any information contained herein is to the best of our knowledge true and accurate, no warranty is given or implied in connection with any recommendations or suggestions made by us, our representatives, agents, or distributors, as the conditions of use and any labour involved are beyond our control. Our warranty is therefore limited to the quality of supplied product.

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