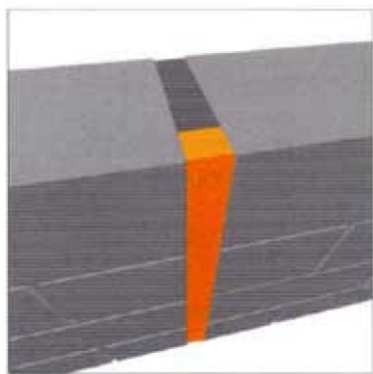


description

Arbosil 1071 is a one part Low Modulus Fire Resisting and Acoustic Silicone Sealant which cures on exposure to moisture vapour to form a very elastic silicone rubber. Arbosil 1071 has good adhesion to concrete, brickwork, metals and many other common construction substrates.

Main applications



High Movement Fire Seal

Recommended for the sealing of expansion joints and other details in walls or screens to prevent the passage of fire. Recommended for use in sports stadiums where a fire seal is required. Fire resistance of 4 hours has been independently verified.

NB: Not recommended for overpainting and for use against natural stone.

specification compliance

BS EN ISO 11600 – F/G – 25 LM

BS 5889 Type A: 1989

Fire Testing to BS 476 Part 20:1987;

Warrington Report No: 122635

Warrington Report No: 123325/A

Acoustic Testing;

AIRO Report L/2913/6

AIRO Report L/2913/7

application instructions

Joint preparation

The joint surfaces must be clean, dry and free from all contamination. The surfaces should be degreased using the appropriate Arbo Cleaner. Primers may be required on some substrates. It is recommended that Adshead Ratcliffe Technical Services Department should be consulted and advice obtained with regard to the choice of primer for specific purposes.

Joint Backing

Where applicable, appropriate joint filler e.g. mineral wool or closed cell polyethylene foam, should be used to provide the correct joint depth (see chart for joint dimensions required for fire integrity and insulation values).

Application

All joint preparation, priming, and sealant application should be carried out in accordance with BS 8000 Part 16, the British Standard for the sealing of joints in buildings using sealants.

Arbosil 1071 is supplied in polyethylene 380ml cartridges and can be applied into the joint using an Arbo Caulking Gun

Joint Size Suitability

Joint Width

Minimum 6mm

Maximum 25mm (single application); for advice on multiple applications please contact Adshead Ratcliffe Technical Services Department.

Joint Depth

Minimum 10mm on porous substrates

Minimum 6mm on non-porous substrates Maximum 25mm

Width: Depth ratio (within above min/max restrictions)

Please contact Adshead Ratcliffe Technical Services Department. Generally, joints should be as narrow as possible minimize exposure to fire.

packaging

25 x 380ml Polyethylene Cartridges per box. Polyethylene Nozzles are included in each box.

colours

White, Grey (special colour made to order subject to minimum order quantities). Please contact Adshead Ratcliffe Technical Services Department for further information.

storage life

12 months in original unopened packaging stored in a cool, dry place out of direct sunlight.

Health and safety

No particular hazards with this product but please consult Material Safety Data Sheet for full information.

technical data

Skin Time at 20° C/65 % RH: 45 minutes

Application Temperature: + 5° C to + 50° C

Service Temperature: - 50° C to + 120° C

Typical Shore Hardness: 20

Cure Rate at 20° C/65 % RH: 1mm/24 hours

Chemical Resistance: Resistant to most dilute acids and alkalis. Organic solvents may cause the sealant to swell and lose adhesion.

UV Resistance: Very Good

Service Life: 25 years+

Movement Accommodation: Butt joints (movement in tension and compression): 50 %. Do not exceed ±

33 % in any one direction. Lap joints (movement in shear): 100 %. Do not exceed ± 66 % in any one direction

accessories

Primers

Arbo Primer 2650 (500ml tin). Yield approximately 125 metres per tin
Arbo Primer 2402 (500ml tin). Yield approximately 200 metres per tin
Arbo Primer 2172 (500ml tin). Yield approximately 200 metres per tin

Cleaners

Arbo Cleaner No.17- 1 Litre Tin (Xylene based – not suitable for use with plastics or delicate finishes)

Arbo Cleaner No. 16 - 1 Litre Tin (Alcohol Based)

Ancillary Equipment

Polyethylene Nozzles

Arbo Caulking Guns

Quantity estiMator

Joint Size (mm)	Metres/Litre
6 x 6	27.8
9 x 6	18.5
12 x 9	9.3
18 x 10	5.6
25 x 10	4.0

fire test results synopsis

Joint Size (mm)	Backing Material	Integrity (minutes)
50 x 15	Rockwool	240
30 x 25	Foam Polyethylene*	240
15 x 10	Mineral Wool	240
20 x 20	Foam Polyethylene*	240
30 x 15	Rockwool	240
35 x 25	Foam Polyethylene*	240
10 x 10	Foam Polyethylene*	240

NB: *Test incorporates seals and backing material on both faces of the construction

important: The information in this leaflet is given in good faith and based on results gained from experience and tests. However, all recommendations or suggestions are made without guarantee since the conditions of use are beyond our control. Goods are supplied subject to the Company's terms and conditions of sales, a copy of which is available on request.

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