

INTRODUCTION

Arbosil 1070 is a one part Low Modulus Fire Resisting Silicone Sealant which cures on exposure to moisture vapour to form a very elastic silicone rubber. Arbosil 1070 has good adhesion to concrete, brickwork, metals and many other common construction substrates.

MAIN APPLICATIONS

Recommended for sealing expansion joints and other details in walls or screens to prevent the passage of fire. Fire resistance of 4 hours has been independently verified.

NB: Not recommended for use in floor joints.

SPECIFICATION COMPLIANCE

BS EN ISO 11600 – F/G – 25 LM
BS 5889 Type A: 1989
BS 476 Part 20:1987;
Warrington Report No: 48940
Warrington Report No: 116997
Warrington Report No: 119344
Warrington Report No: 123325/A

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 1070 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 20mm

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

Grey, Black. (Special colours can be made to order subject to minimum batch size quantities. Please contact Adshead Ratcliffe Technical Services Department for further information).

STORAGE LIFE

9 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:	20 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)	Insulation (minutes)
35 x 15	Rockwool	240	95
35 x 15	Foam Polyethylene*	156	123
10 x 10	Mineral Wool	240	30
10 x 10	Mineral Wool*	240	240
20 x 20	Mineral Wool*	240	240
35 x 15	Rockwool	240	116
35 x 15	Foam Polyethylene*	196	162

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.

Arbo sealants are manufactured in the U.K. by Adshead Ratcliffe.