

ARBOSEAL^{PRO}

Arbosil ONE

Arbosil ONE is a low-modulus, one-part neutral-cure alkoxy silicone sealant that cures upon exposure to moisture in the air, forming a highly elastic silicone rubber.

Main Applications

Perimeter sealing and pointing around standard window and door framing. Sealing high-movement expansion joints in brickwork, blockwork and general masonry. Weather pointing for soft metal roofing and flashing applications. Advanced weather sealing for external cladding, curtain walling frames and a wide variety of structural construction joints.

Key Performance Attributes

- Highly elastic, low-modulus formulation with excellent movement capability of 100% in extension and 25% in compression.
- Easy tooling and extended open time properties for large-scale construction applications.
- Strong adhesion : adheres to most common construction substrates including metals, plastics, timber, masonry and soft metals.
- Engineered for long-term weather resistance and UV exposure.
- High viscosity, non-sag formulation.



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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. ARBO® Primer 2650 is recommended on porous surfaces such as masonry. ARBO® Primer may be required on other substrates. Consult ARBO® Technical Services for specific primer advice.

Joint Backing

Where applicable, use oversized closed-cell, cross-linked polyethylene foam. All joint preparation, priming, and sealant application should be carried out in accordance with BS 8000-16:1997 + A1:2010, the British Standard for the sealing of joints in buildings using sealants.

Joint Size Suitability

Joint width	Minimum 6mm Maximum 50mm
Joint depth	Minimum 10mm on porous substrates Minimum 6mm on non-porous substrates Maximum 15mm Width Depth ratio (within above min/max restrictions) 2:1 butt joints 1:1 lap joints/floor joints

Colours

White, Black, Grey, RAL 7016, RAL 7022, Light Grey, Anthracite, Brown, Buff, Dark Bronze, Portland, Rustic Red, Magnolia. Other colours are available subject to minimum quantities and lead times. Please contact ARBO® Technical Services for further details.

Health and Safety

Please consult the Safety Data Sheet for full information.

Storage Life

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

Restrictions

Not overpaintable.

Not suitable for use with stone (use ARBOSIL XL 1099S).

Do not use in conjunction with materials such as bitumen asphalt, neoprene and certain organic elastomers.

Packaging

25 x 310ml or 380ml polyethylene cartridges per box. Polyethylene nozzles are included in each box.

Technical Data

Skin time 23°C, 50% RH	30-45 minutes
Tensile modulus of elasticity ISO 8339, 100% elongation, +23°C	0.27-0.30MPa
Shrinkage ISO 10563	<5%
Elastic recovery ISO7389	>80%
Average tensile adhesion strength	0.73MPa
Elongation at break	>550%
Application temperature	+5°C to +40°C
Service temperature	-30°C to +120°C
Shore A hardness	20-30
Cure rate, 23°C, 50% RH	Day 1-3: 2mm/ 24hours Day 4+: 1mm/ 24hours
Modulus of elasticity in compression ISO11432, 25%	0.25MPa

All values are indicative only based on testing. Actual measured results may vary dependent on conditions.

Product Certification

BS EN ISO 11600-F-25LM
BS EN 15651-1 EXT-INT CC

Important: The information in this datasheet is given in good faith and based on results based on practical experience and standard testing. However, all recommendations or suggestions are made without guarantee since the conditions of use are beyond our control. It is the user and specifier's responsibility to ensure the ARBO product is suitable for the intended use; consult ARBO Technical Services for specific advice. Goods are supplied subject to the Company's terms and conditions of sale, a copy of which is available on request.



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