

SILFIX® U9

Version No. 7

Revision Date: 22/08/2019

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DESCRIPTION

Silfix® U9 is widely regarded as one of the best low modulus silicone sealants available. Conforming fully to the requirements of BS 5889 Type A and ISO 11600 classification G-25-LM, it offers outstanding performance across a wide variety of glazing, industrial and construction applications. It has excellent adhesion to glass, timber, metals, brickwork, plastics and concrete and does not normally require a primer.

KEY FEATURES

Excellent adhesion to a wide variety of surfaces including PVC-U, coated metals, brickwork, stone, polycarbonate, coated timber and glass.

Compatible with all major European edge sealants for double glazed units.

High movement accommodation.

Premium quality low modulus neutral cure silicone which cures to form a flexible rubber.

Superior performance across a wide range of temperatures.

Suitable for use with laminated glass.

TECHNICAL APPROVALS

Silfix® U9 conforms to the following standards :-

EN15651-1: F-EXT-INT-CC: Sealant for façade for interior and exterior application (intended for use in cold climates).

EN15651-2: G-CC: Sealant used for sealing glazing applications (intended for use in cold climates).

USES

For sealing joints between GRP panels and roof sheets, trims and flashing in roofing and cladding, PVC-U, aluminium, steel, timber frame and door surrounds, and wall tiling.

For capping and bedding of glass and insulating glass units in bead glazing systems.

Many forms of expansion/construction joints in buildings.

Fully compatible with Hodgson's Flexistrip and range of butyl strip sealants.

Sealing joints in general industrial applications such as those found in heating & ventilation, sectional buildings, caravans etc.

For sealing glazing plastics such as polycarbonate.

PERFORMANCE (T = Translucent, C=Colours)

Adhesion: Excellent unprimed adhesion to glass or glazed surfaces, coated metals, brick, natural stone, PVC-U, polycarbonate and coated timber.

Service life (predicted): 20+ years

Base technology: Silicone polymer

Service temperature range: -50°C to +100°C

Chemical resistance: Excellent to dilute acids and alkalis

Shrinkage: < 5%

Curing system: Neutral cure (liberates methanol)

Specific gravity, approx: 1.01g/cm³ (T), 1.5g/cm³ (C)

Hardness (Shore A 25°C): 18-22 (T), 30-32 (C)

Slump: Nil

ISO 11600 classification: G -25-LM

Staining: Nil on most surfaces

Mould resistance: Does not contain a fungicide

Tensile Strength: 1.1 N/mm² (T), 1.9 N/mm² (C)

Movement accommodation: ± 25%

UV resistance: Excellent

Paintability: Not recommended

Volatile content: < 5%

Tack free Time: 35 minutes (23°C 50% RH)

PRODUCT DATA SHEET

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APPLICATION

PROPERTIES

Application temperature range: +5°C to +40°C

Curing rate: Cures at a rate of 2-3 mm in 24 hours at 23°C @ 60% RH. Lower temperatures and drier conditions will result in a slower rate of cure.

Shelf life: 12 months.

Skinning time: Skin forms after approximately 30 minutes at 20°C @ 60% RH.

Working time: Approximately 15 to 20 minutes depending on conditions.

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. Apply primer if required. 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 on the nozzle. Cut nozzle to correct diameter for joint size. Apply using a skeleton or powered gun into the joint ensuring good contact with surfaces. In deep joints, the use of a foam backing rod is essential to ensure good joint formation.

Tooling: Tool immediately after sealant has been applied within the working time for the product.

EQUIPMENT

A selection of hand & air operated guns is available for cartridge and/or sausage application including a high power type suitable for filling deep voids.

PACKAGING

310ml cartridges - 25 per case

Colour range: Translucent, White, Grey, Brown, Black

600ml sausages - 12 per case (upon request)

ESTIMATING QUANTITIES

Number of cartridges or sachets = $\frac{\text{Joint depth (mm)} \times \text{Joint width (mm)} \times \text{Length (M)}}{\text{Volume of cartridge or sachet(ml)}}$ This calculation does not allow for wastage.

HEALTH AND SAFETY

Non-flammable.

Wash hands immediately after use.

Consult Product Safety Data Sheet before use.

GENERAL

Silfix® U9 is part of a full range of speciality sealants and tapes designed for the professional user. For further information please contact our 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.