

SILFIX[®] HM

Version No. 5

Revision Date: 16/09/2014

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DESCRIPTION

Silfix[®] HM is a premium quality high modulus, sanitary, acetoxo cure silicone sealant which offers outstanding strength, performance and durability. It is ideal for use in a wide variety of glazing, industrial and domestic applications and is ideal for use in glass/glass joints, shop fronts, kitchens and bathrooms. Conforms fully to the requirements of EN 15651-1: F-EXT-INT-CC (Class 20LM), EN 15651-2: G-CC (Class 20LM) and EN 15651-3: S (Class XS1).

KEY FEATURES

Excellent unprimed adhesion to a wide variety of surfaces including glass and glazed surfaces, coated metals and some plastics.

Contains a powerful fungicide which makes it ideal for use around baths, basins, ceramic tiles etc.

Fast curing acetoxo system.

Good performance across a wide range of temperatures.

TECHNICAL APPROVALS

Silfix[®] HM conforms to the following standards: EN 15651-1: F-EXT-INT-CC (Class 20LM), EN 15651-2: G-CC (Class 20LM) and EN 15651-3: S (Class XS1).

USES

For use on the internal and external face of facades.
 For glazing applications.
 For sanitary applications.
 For sealing joints between Plastisol and alkyd coated steel.
 Trims and flashing in roofing and cladding.
 PVC-U, aluminium, steel, timber frame/door surrounds.
 Wall tiling.
 For use in cold climates.

Many forms of expansion/construction joints in building superstructures.
 Glass to glass joints such as shop fronts where a high structural strength is required.
 General industrial use eg heating & ventilation, sectional buildings, caravans etc.
Note: Do not use in contact with edge sealants of double glazed units or where it will be in contact with lead, brass and copper.
:Do not use for the construction of aquaria; use Silfix[®] Aquaria.

PERFORMANCE

Adhesion: Excellent to glass and glazed surfaces, coated metals, painted timber and some plastics. For further details contact our Technical Department.
Base technology: Silicone polymer
Chemical resistance: Excellent to dilute acids and alkalis
Curing system: Acetoxo cure
Hardness (Shore A 25°C): 20-30
Mould resistance: Excellent (Class XS1)
Movement accommodation: ±20%
Paintability: Not recommended

Service life (predicted): 20+ years
Service temperature range: -50°C to +180°C
Shrinkage: < 5%
Slump: <2mm
Specific gravity: 1.03g/cm³
Staining: Nil on most surfaces
Tensile strength: 1.6 N/mm²
UV resistance: Excellent
Volatile content: < 5%
Elongation at break: 650%

PRODUCT DATA SHEET

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APPLICATION

PROPERTIES

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

Curing rate: Cures at a rate of 3mm in 24 hours at 23°C @ 55% RH. Lower temperatures and drier conditions will result in a slower rate of cure.

Shelf life: 24 months.

Skinning time: Skin forms after approximately 15 minutes at 23°C @ 55% RH.

Working time: Approximately 10 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 Hodgson 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 application including a high power type especially suitable for filling deep voids.

PACKAGING

310ml cartridges – 25 per carton

Standard Colours: White, translucent, black, brown

ESTIMATING QUANTITIES

$$\text{Number of cartridges} = \frac{\text{Joint depth (mm)} \times \text{Joint width (mm)} \times \text{Length (M)}}{\text{Volume of cartridge (ml)}}$$

This calculation does not allow for wastage.

HEALTH AND SAFETY

Use only in well-ventilated areas. Avoid contact with skin.

Wash hands immediately after use. See Product Safety Data Sheet for further information.

GENERAL

Silfix[®] HM 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.