

Silicone Sealant 33HM



constructive solutions

One-part, high modulus, silicone acetoxy cure, sealant - specification grade

Uses

Silicone Sealant 33HM is ideal for sealing joints on glass and ceramic surfaces. Principal applications include:

- Glazing (not structural glazing)
- Hygienic areas
- Hospitals
- Kitchens
- Showers
- Baths and basins
- Sanitary ware
- In-situ draughtproofing to casement windows and doors

Advantages

Silicone Sealant 33HM is a one-part sealant which cures on exposure to atmospheric moisture to form a tough, elastic seal providing excellent, long service life adhesion to glass, ceramic tiling and sanitary ware.

- Fast rate of cure
- Robust elastic seal
- Excellent adhesion

Standards compliance

BS 5889:1989 Type 'B'.

Description

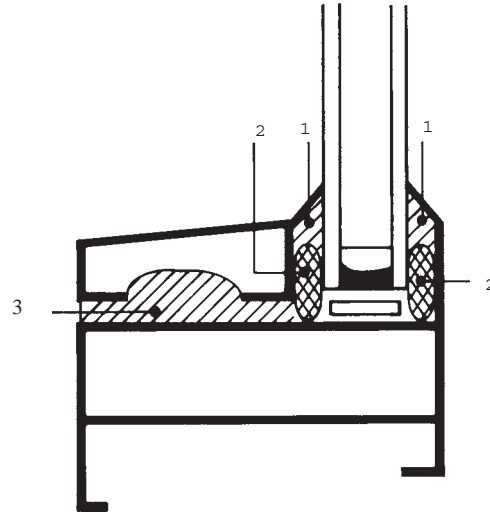
Silicone Sealant 33HM is a moisture activated, acetoxy cure sealant having a very fast rate of cure, forming a tough elastic seal with excellent adhesion to glass, ceramics, aluminium, polycarbonate and acrylic surfaces. It is particularly recommended for use as a sealant for tiled surfaces, glass and sanitary ware.

Technical support

Fosroc offers a comprehensive range of high performance, high quality technical products. In addition, Fosroc offers a technical support package to specifiers and contractors which includes computer-aided design (CAD), standard details as well as on-site technical advice from staff with unrivalled experience in the industry.

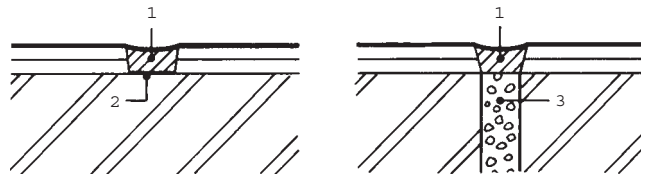
Design criteria

Example of capped beading glazing system



- 1 **Silicone Sealant 33HM**
- 2 **Glazing Strip**
- 3 **Butyl glazing and bedding compound**

Example of sealed stress relief and expansion joint in ceramic tiled finishes



- 1 **Silicone Sealant 33HM**
- 2 ***Fosroc Debonding Tape**
- 3 ***Expandafoam**

* Also available from Fosroc.

Note: Silicone Sealant 33HM can be used as a formed in place draughtproofing gasket to rectify ill-fitting casement window and door openings. For further information contact Fosroc Technical Service Department.

Joint size: Silicone Sealant 33HM may be applied in joints between 3 and 25 mm wide and 5 and 10 mm deep. For optimum performance in joints with significant movement the depth of sealant should be between one-half and one-third of the joint width. The joint should also include a suitable back-up strip.

Silicone Sealant 33HM

Properties

| | | |
|--|------------------------------------|---------------|
| Form: | Thixotropic paste | |
| Colours: | White, translucent | |
| Movement accommodation factor (BS 6093): | 15% butt joints 30% lap joints | |
| Cure: | Chemically cures to a solid rubber | |
| Skimming time, 20°C: | 10 to 45 minutes | |
| Cure rate 20°C, 65% RH: | 96 hours to 5 mm depth | |
| Application temperature: | 5°C to 50°C | |
| Typical hardness shore 'A' at 25°C: | 24 | |
| 100% modulus: | 4.0 kg/cm ² | |
| Chemical resistance to occasional spillage: | Sulphuric acid 25% | resistant |
| | Hydrochloric acid 10% | resistant |
| | Acetic acid 10% | resistant |
| | Lactic acid 2% | resistant |
| | Caustic soda 10% | not resistant |
| | Ammonia 10% | resistant |
| | Kerosene | not resistant |
| | Mineral oil | resistant |
| Continuous service temperature range: | -40°C to 120°C | |
| Solids content: | 100% | |
| Flashpoint: | Over 65°C | |
| Flammability: | Burns | |

Maintenance

No special requirements, any damage identified during normal building inspections should be repaired or replaced as appropriate.

Specification clauses

Joints shall be sealed using Silicone Sealant 33HM complying with BS 5889 Type 'B' manufactured by Fosroc. Joints shall be prepared and the sealant applied in accordance with the manufacturer's current data sheet.

Application instructions

Preparation

Joint surfaces must be clean, dry and free from frost. Remove all dirt, loose materials and foreign matter. Remove all rust, scale and protective lacquers from metal surfaces. Glass and metal surfaces should be degreased using Fosroc Equipment Cleaner.

In movement joints Silicone Sealant 33HM must always be supported by a firm back-up strip such as Expandafoam which will allow free movement. If insufficient depth is available use an adhesive bond breaking tape. A bond breaker is not required where Hydrocell or Expandafoam is used as the joint filler.

Where a particularly neat finish is required, cover face edges of joint with masking tape before priming and remove immediately after sealing work is complete.

Priming

No priming required for glass, ceramics, aluminium, stainless steel, polycarbonate and acrylic surfaces. For plastics other than those listed above contact Fosroc Technical Department.

Gun loading

Cut conical tip off cartridge end thread, screw on nozzle, cut at 45° to required size and fit into a Fosroc W gun.

Application

Extrude the sealant firmly into joint to ensure complete contact with joint faces. Smooth finish if necessary with a spatula wetted with a detergent solution.

Cleaning

Clean tools immediately after use with Fosroc Equipment Cleaner. Clean hands with a proprietary hand cleaner.

Limitations

Silicone Sealant 33HM is not intended for use in structural glazing applications.

Not suitable for use on concrete and other alkaline surfaces. Use Hilastic LM.

White Silicone Sealant 33HM contains a fungicide and is unsuitable for use in the assembly of aquaria.

Estimating

Packaging

310 ml plastic cartridges with separate screw-on nozzles, packed in cartons of 20. Total contents approximately 6.2 litres.



Silicone Sealant 33HM

Guide to sealant quantities

| Joint size in mm | Litre per metre run | Metre per 0.31 litre cartridge |
|---------------------|------------------------|-----------------------------------|
| 3 x 5 | 0.015 | 20.7 |
| 3 x 10 | 0.030 | 10.3 |
| 5 x 5 | 0.025 | 12.4 |
| 5 x 10 | 0.050 | 6.2 |
| 10 x 5 | 0.050 | 6.2 |
| 10 x 10 | 0.100 | 3.2 |
| 15 x 10 | 0.150 | 2.1 |
| 20 x 10 | 0.200 | 1.6 |

These are theoretical yields. No allowance has been made for variation in joint dimensions or wastage.

Storage

12 months minimum storage life for product stored in original container kept in cool, dry conditions.

Precautions

Health and safety

Please refer to MSDS.

As well as joint sealants and ancillary products, Fosroc also manufactures a wide range of complementary products which includes waterstops, waterproofing membranes, grouting, anchoring and specialised flooring materials. In addition, a wide range of products specifically designed for the repair and refurbishment of damaged reinforced concrete is available. This includes hand-placed and spray grade repair mortars, fluid micro-concretes, chemical-resistant epoxy mortars and a comprehensive package of protective coatings.

Silicone Sealant 33HM is a trade mark of
Fosroc International Limited



Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Services, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it.

Fosroc Limited
Drayton Manor Business Park
Coleshill Road, Tamworth,
Staffordshire B78 3TL. UK

www.fosroc.com

telephone:
+44 (0) 1827 262222

fax:
+44 (0) 1827 262444

email:
uk@fosroc.com



Certificate number FM 610