

Fosroc® Hilastic LM

constructive solutions

One-part, low modulus neutral cure silicone sealant

Uses

For sealing joints in building structures, uPVC windows and door frames.

Advantages

- Neutral cure system — appropriate for porous and non-porous surfaces
- Elastic low modulus seal
- Good adhesion to a variety of substrates including uPVC
- Good application properties

Description

Hilastic LM is a one-part neutral curing silicone sealant suitable for sealing around uPVC windows and movement joints in concrete, brickwork and a variety of other substrates. Hilastic LM cures on exposure to air and humidity to form a flexible seal that requires no maintenance throughout its service life.

Hilastic LM may be applied to joints between 5 and 25 mm wide and 5 and 12 mm deep. For joints over 10 mm wide, a width to depth ratio of 2 : 1 should be applied up to a maximum depth of 12 mm.

Properties

Form:	Thixotropic paste
Colours:	White, brown, grey, buff, brick red, stone, black, dark grey
Cure:	Chemically cures to a solid rubber
Skimming time @ 23°C:	30 minutes
Cure rate @ 20°C / 65% RH:	1 mm / day
Application temperature:	5°C to 40°C
Typical hardness shore @ 20°C / 60% RH:	30
Movement accommodation factor (MAF):	50%

Application instructions

Preparation

Joint surfaces must be clean, dry and free from frost. Remove all dirt, laitance, loose material and foreign matter. Remove all rust, scale and protective lacquers from metal surfaces. Non-porous surfaces should be degreased using Fosroc Solvent 102.

In movement joints Hilastic LM must be supported by Expandafoam cord backing which will allow free movement. If insufficient depth is available use a self adhesive bond breaking tape.

Where a particularly neat finish is required, cover face edges with a masking tape and remove immediately after sealing work is completed.

Application

Extrude the sealant firmly into the joint to ensure complete contact with joint faces. Smooth finish if necessary with a spatula wetted with detergent solution. Joint should be tooled within 5 minutes of application.

Cleaning

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

Limitations

Not suitable for trafficked joints or for permanently immersed conditions.

Should not be used on substrates which bleed oils, plasticisers or solvents.

Not to be used with bitumen compounds.

Cure may be retarded in conditions of very low humidity and temperature.

Hilastic LM should not be overcoated or painted even when fully cured.

Like most silicone sealants, Hilastic LM should not be used on natural stone.

Estimating

Packaging

380 ml plastic cartridges with separate screw-on nozzles, packed in cartons of 20. Total contents approximately 7.6 litres.

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Guide to sealant quantities

Joint size in mm	Litre per metre run	Metre per 380 ml cartridge
5 x 5	0.025	15.20
5 x 10	0.050	7.60
10 x 10	0.100	3.80
15 x 10	0.150	2.53
20 x 10	0.200	1.90
25 x 12	0.300	1.27

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

Storage

Storage life 12 months. Store in original containers in cool, dry conditions. Storage outside these conditions may reduce shelf life.

Precautions

Health and safety

For further information refer to appropriate Product Safety Data Sheet.

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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



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