

PRODUCT FAMILY

Waterproofing &
Joint Sealants

MCT

MC-Poly Seal 2

High-Performance Two-Component Polysulphide Joint Sealant

High-performance two-component polysulphide sealant available in non-sag and self-levelling/pourable grades for movement joints.

Pot life @ 25°C	Specific gravity @ 25°C	Current package sizes	Hardness
NS: 4 h • SL: 2 h	1.6 ± 0.05 kg/L	SL: 4 L • NS: 11 kg	25-50 Shore A

Description

MC-Poly Seal 2 is a two-component high-performance polysulphide joint sealant. It is available as a non-sag grade for vertical/overhead joints and a self-levelling/pourable grade for horizontal joints.

Where to use

- Sealing construction and expansion joints in sewage works, reservoirs, swimming pools, bridges and structures subject to movement or vibration.
- Glazing assemblies, curtain-wall systems and structures exposed to thermal movement and wind-pressure variation.
- Joint width should be sufficient to accommodate the expected movement; the source provides dimensional guidance for width-to-depth proportions.

MCT TECHNICAL DATA

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Advantages

- Select the appropriate grade for vertical, overhead or horizontal application.
- Non-biodegradable; suitable for sewage works and exposed weather conditions, as stated by the source.
- Good resistance to chemicals, oils and petroleum products.
- The source references ASTM C-920, ASTM C-1193, BS 4254, DIN 18540 and US Fed TT-S-227E.

Joint design

- Joint width should accommodate expected movement; the source states a width of approximately four times the expected movement.
- For joints up to 12.7 mm wide, depth is approximately equal to width.
- For widths from 12.7 to 25 mm, depth is approximately half the width.
- For widths from 25 to 50 mm, the source states a maximum depth of approximately 12.7 mm.

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Technical data

Specific gravity @ 25°C	1.6 ± 0.05 kg/L
Movement accommodation	±50%
Application temperature	4-60°C
Service temperature	-40 to 80°C
Plastic deformation - BS 4254	< 25%
Shrinkage	None
Vertical slump	None
Pot life @ 25°C	Non-sag: 4 hours; self-levelling/pourable: 2 hours
Initial set @ 25°C	24 hours
Full cure	7 days
Shore A hardness	25-50 Shore A
Current package sizes	SL = 4 L; NS = 11 kg

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Application

- Joint surfaces must be clean and dry; compressed air is recommended for dust removal where appropriate.
- Prime porous substrates such as concrete using MC-Poly Seal Primer according to its TDS.
- Use a closed-cell polyethylene backing material such as MC-Master Back to control sealant depth.
- Mix the components thoroughly with a mechanical mixer at approximately 400-500 rpm.
- After primer drying and installation of backing material, apply non-sag grade with a sealant gun or knife; tool the surface as required.

Safety & cleaning

- Clean tools and equipment with a suitable thinner before the material cures.
- Prevent material entering the eyes and avoid skin contact.
- Provide adequate ventilation.

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Reference specifications

- ASTM C-1193 · ASTM C-920 · BS 4254 · DIN 18540 · TT-S-227E

Packaging

- Current publication values: SL grade = 4 L; NS grade = 11 kg.

