

PRODUCT FAMILY

Waterproofing &
Joint Sealants

MCT

MC-Flow Seal S.F

Cement-based super-fine water-resistant coating for concrete

A flexible two-component polymer-cement waterproofing coating for concrete.

Pot life	Density @ 25°C	Packaging	Compressive strength - 28 d
45 min at 25°C	1.9 ± 0.05 g/cm ³	20 kg solid + 9 kg polymer	350-400 kg/cm ²

Description

MC-Flow Seal S.F is a flexible two-component polymer-cement-based water-resistant coating for concrete.

Where to use

- Seals foundations, tunnels and machinery pits.
- Leak-proofs reservoirs, swimming pools and sewage works.
- For rubbing concrete structures and walls.
- Protection of concrete surfaces in marine areas.

MCT TECHNICAL DATA

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Advantages

- Easy to apply.
- Suitable for interior or exterior use against positive or negative pressure.
- Adds uniform colour and texture.
- Provides lasting protection.
- Forms a hard concrete coating that becomes part of the wall and helps reduce future maintenance.
- Flexible due to the polymer effect.
- Higher wear and weathering resistance.
- Excellent adhesion to concrete surfaces.
- Can fill concrete cracks while waterproofing surfaces liable to movement or risk of cracking.
- Smooth texture.

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Technical data

Colour	Grey
Density @ 25°C	1.9 ± 0.05 g/cm ³
Toxicity	Non-toxic
Flexibility	Slightly flexible
Pot life	45 min at 25°C
Compressive strength - 28 days	350-400 kg/cm ²
Flexural strength - 28 days	100-130 kg/cm ²
Shelf life	12 months when unopened
Coverage	1 kg/m ² per coat; two coats recommended
Packaging	20 kg solid + 9 kg liquid polymer
Bond strength - 28 days	> 20 kg/cm ²

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Surface preparation

Clean the surface with a wire brush, scraping or chipping to remove defective material and foreign matter. Chemically remove remaining efflorescence, oil and similar contamination. Repair cracks and holes with MC-Flow Plug hydraulic cement compound to stop flowing water. Punch weep holes at the base to relieve water pressure. Dampen walls one hour before application and keep damp, allowing moisture to soak in. Dense concrete should be wetted at least twice, not less than 30 minutes apart. The surface must be damp, with no free water, immediately before application. If MC-Flow Seal S.F begins to pull during application, the surface has not been properly wetted.

Mixing

Empty a 20 kg bag of MC-Flow Seal S.F into the polymer solution in a clean container and mix thoroughly with a suitable mixer to obtain a uniform slurry. For mortar consistency on trowel application, use less polymer solution as required.

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Application

Brush application: apply MC-Flow Seal S.F with a stiff fibre brush. Scrub well into the damp wall, filling all pores, then brush out and finish with a final stroke in one direction while maintaining a wet edge. Apply a second coat after 24 hours. Trowel application: apply as above; on the second coat, trowel the two-component mixture with less polymer solution to maintain mortar consistency. Fill holes with MC-Flow Plug and finish with MC-Flow Seal S.F. Do not apply when the temperature may fall below 7°C or when the wall is frozen. Curing time depends on temperature.

Packaging

20 kg bag of solid material + 9 kg liquid polymer (29 kg combined set).

