

PRODUCT FAMILY

Waterproofing &
Joint Sealants

MCT

MC-Flow Seal Flex

Flexible Two-Component Acrylic Cementitious Waterproof Coating

Flexible two-component cementitious system modified with styrene-acrylic polymer for waterproofing concrete and reducing water penetration.

Pot life @ 25°C	Density	Packaging	28-day bond strength
45 min	$1.8 \pm 0.05 \text{ g/cm}^3$	20 kg powder + 5 kg polymer	> 20 kg/cm ²

Description

MC-Flow Seal Flex is a flexible two-component cementitious coating modified with styrene-acrylic polymer. It is used as a water-resistant layer on concrete surfaces.

Where to use

- Waterproofing foundations, tunnels and machinery pits.
- Waterproofing reservoirs, swimming pools, sewage works and potable-water tanks, as stated by the source.
- Coating concrete structures and walls.
- Protecting concrete surfaces in marine environments.

MCT TECHNICAL DATA

MC-Flow Seal Flex

Flexible Two-Component Acrylic Cementitious Waterproof
Coating

Advantages

- Easy application.
- Interior and exterior use against positive or negative water pressure.
- Provides uniform colour and texture.
- Long-term protection.
- Forms a coherent cementitious layer bonded to the substrate.
- Excellent flexibility from polymer modification.
- Excellent adhesion to concrete.
- Resistance to ultraviolet exposure and weathering.
- The source states suitability for potable-water and sewage projects.

MCT TECHNICAL DATA

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Technical data

Colour	Grey
Density	1.8 ± 0.05 g/cm ³
Toxicity	Non-toxic, as stated by the source
Flexibility	Excellent
Pot life @ 25°C	45 minutes
Bond strength after 28 days	> 20 kg/cm ²
Tensile strength after 28 days	≥ 5 kg/cm ²
Elongation after 28 days	23%
Coverage	1 kg/m ² per coat; two coats recommended
Shelf life	12 months in unopened packaging
Packaging	20 kg powder + 5 kg liquid polymer

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Surface preparation

- Clean surfaces by wire brushing, scraping or suitable mechanical preparation to remove weak material and foreign matter.
- Remove salts, oils and contaminants by chemical or other appropriate cleaning.
- Repair cracks, holes and active leakage with suitable repair materials such as MC-Flow Plug, as referenced by the source.
- Dampen walls before application; the substrate should be damp with no free water at the time of coating.

Mixing

- Add one 20 kg bag of powder to 5 kg of polymer solution in a clean container.
- Mix mechanically until a homogeneous paste/mortar suitable for application is obtained.

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Application

- Brush application: use a stiff-fibre brush and work the material into the substrate pores; finish in one direction while maintaining a wet edge.
- Apply the second coat after approximately 24 hours, with suitable substrate dampening beforehand.
- Trowel application: the second coat may be adjusted to a firmer mortar consistency by reducing the polymer proportion as described by the source.
- Do not apply when the temperature may fall below 7°C or to frozen substrates; curing time is temperature-dependent.

Storage & packaging

- Shelf life: 12 months in unopened packaging. Packaging: 20 kg powder + 5 kg liquid polymer.

