

PRODUCT FAMILY

Waterproofing &
Joint Sealants

MCT

MC-Flow Seal

Two-Component Acrylic Cementitious Water-Resistant Coating

Two-component acrylic-modified cementitious coating for waterproofing concrete and reducing water penetration, suitable for interior and exterior use.

Pot life @ 25°C	Density	Packaging	28-day compressive strength
45 min	$1.9 \pm 0.05 \text{ g/cm}^3$	25 kg powder + 8 kg polymer	350-400 kg/cm ²

Description

MC-Flow Seal is a two-component water-resistant coating based on cement and acrylic polymer. It is applied to concrete to reduce water penetration and form a coherent protective layer bonded to the substrate.

Where to use

- Waterproofing foundations, tunnels and machinery pits.
- Waterproofing reservoirs, swimming pools and sewage works.
- Coating concrete structures and walls.
- Protecting concrete surfaces in marine environments.

MCT TECHNICAL DATA

MC-Flow Seal

Two-Component Acrylic Cementitious Water-Resistant
Coating

Advantages

- Easy application.
- Suitable for interior or exterior use against positive or negative water pressure.
- Provides a uniform colour and texture.
- Forms a durable cementitious coating integrated with the substrate.
- Excellent adhesion to concrete.
- Slight flexibility, as stated by the source.
- Good resistance to abrasion and weathering.
- The source states suitability for potable-water and sewage projects.

MCT TECHNICAL DATA

MC-Flow Seal

Two-Component Acrylic Cementitious Water-Resistant
Coating

Technical data

Colour	Grey
Density	1.9 ± 0.05 g/cm ³
Toxicity	Non-toxic, as stated by the source
Flexibility	Slightly flexible
Pot life @ 25°C	45 minutes
Bond strength after 28 days	> 20 kg/cm ²
Compressive strength after 28 days	350-400 kg/cm ²
Flexural strength after 28 days	100-130 kg/cm ²
Coverage	1 kg/m ² per coat; two coats recommended
Shelf life	12 months in unopened packaging
Packaging	25 kg powder + 8 kg liquid polymer

MCT TECHNICAL DATA

MC-Flow Seal

Two-Component Acrylic Cementitious Water-Resistant
Coating

Surface preparation

- Remove weak material and foreign matter by wire brushing, scraping or suitable mechanical preparation.
- Remove efflorescence, salts, oils and contaminants.
- Repair cracks and holes and stop active water leakage with a suitable repair compound such as MC-Flow Plug, as referenced by the source.
- Dampen the substrate before application; it should be damp with no free water at the time of coating.

Mixing

- Add one 25 kg bag of powder to 8 kg of polymer solution in a clean container.
- Mix mechanically until a homogeneous slurry/mortar is obtained.

MCT TECHNICAL DATA

MC-Flow Seal

Two-Component Acrylic Cementitious Water-Resistant
Coating

Application

- Brush application: use a stiff-fibre brush, work the material into the pores and finish each coat in one direction while maintaining a wet edge.
- Apply the second coat after approximately 24 hours.
- Trowel application: the second coat may be mixed to a mortar consistency by reducing the polymer proportion as described by the source.
- Complete local repairs before final finishing.
- Do not apply when the temperature may fall below 7°C or on frozen substrates.

Single-component version & packaging

- The source also describes a one-component version supplied as 25 kg powder ready to mix with 7.5 litres of water.
- Two-component system: 25 kg powder + 8 kg liquid polymer. Shelf life: 12 months in unopened packaging.

