

PRODUCT FAMILY

Bonding Agents

MCT

MC-Epo Bond

Epoxy Bonding Agent

MC-Epo Bond is a two-component epoxy bonding agent and structural adhesive for bonding new concrete to old concrete. The source references ASTM C881-78, Grade 2, Classes B+C.

Coverage	Initial set @ 25°C	Final cure	Shelf life
2-5 m²/kg	4 hours	5-7 days @ 30°C	12 months

Description

MC-Epo Bond is a two-component epoxy bonding agent and structural adhesive for bonding new concrete to old concrete. The source references ASTM C881-78, Grade 2, Classes B+C.

Where to use

- Positive bonding of new concrete to old eroded or spalled concrete surfaces.
- Remedial maintenance, waterproofing and restoration of concrete surfaces.

MCT TECHNICAL DATA

MC-Epo Bond

Epoxy Bonding Agent

Advantages

- Long pot life.
- High bond strength with concrete.
- Can be applied by brush, roller or spray.
- Suitable for vertical and horizontal surfaces.
- Low cost.
- Easy application.
- Waterproof.

MCT TECHNICAL DATA

MC-Epo Bond

Epoxy Bonding Agent

Technical data

Color	Clear, white, gray and black
Pot life @ 25°C	Clear: 35 min; white/gray: 1.5 h; black: 2 h
Mixing ratio	Clear 1:2; white/gray 1:5; black 0.7:5 (curing:base)
Initial setting time @ 25°C	4 hours
Final cure	5-7 days at 30°C
Coverage	2-5 m ² /kg, depending on surface
Compressive strength - 28 days	600 kg/cm ²
Tensile strength - 14 days	280 kg/cm ²
Flexural strength - 14 days	300 kg/cm ²
Water absorption	< 1%

MCT TECHNICAL DATA

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Technical data - continued

Bonding strength - 7 days	28 kg/cm ² to concrete
Effective shrinkage	Pass
Shelf life	12 months
Packaging	Clear 6 kg (4+2); white/gray 6 kg (5+1); black 5.7 kg (5+0.70)

Surface preparation

The application surface should be sound and clean. Use conventional cleaning methods such as acid etching or mechanical scarification. The surface must be dry and free from standing water.

Mixing

Mix the two components thoroughly according to the required mixing ratio.

Application

Apply MC-Epo Bond by brush or spray. Allow approximately 15-30 minutes after application for the material to become tacky. Fresh concrete should be cast within two hours after coating at 30°C.

MCT TECHNICAL DATA

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Cleaning

Clean tools and equipment using epoxy thinner.

Safety

Take precautions to prevent material entering the eyes and avoid skin contact.

Storage & packaging

Shelf life: 12 months. Packaging: clear 6 kg (4+2), white/gray 6 kg (5+1), black 5.7 kg (5+0.70).

