

Quickmast® 108

Epoxy bonding agent for concrete



DESCRIPTION

Quickmast 108 is a slow cure, solvent-free epoxy resin bonding agent that is supplied in pre-weighted two component packs which when mixed together produce a medium viscosity epoxy adhesive.

Quickmast 108 can be easily spread over old concrete or cementitious substrates to permanently bond freshly casted concrete or new mortars.

APPLICATIONS

Quickmast 108 is a permanent epoxy adhesive for bonding fresh wet concrete/cementitious material to old concrete/cementitious surfaces, which is suitable for internal and external application.

ADVANTAGES

- » High bond strength.
- » Moisture tolerant; can be applied to damp surfaces.
- » Slow cure, allows more time for subsequent works such as fixing steel reinforcements and erecting shutter.
- » High strength.

STANDARDS

Quickmast 108 complies with ASTM C881 Type II, Grade 2, Class C.

METHOD OF USE

SUBSTRATE PREPARATION

The Substrate should be sound, clean and free from contamination. Surface Laitance should be removed by acid etching or light grit blasting.

Oil, grease, and fat deposit should be removed by using either appropriate degreaser or steam cleaning. Weak or deteriorated concrete should be removed by scabbling, chipping or grit blasting.

MIXING

The base and the hardener should be mixed separately before mixing together to disperse any settlement.

Carefully transfer the entire contents of the hardener container into the base component container and thoroughly mix using slow speed drill with appropriate mixing paddle for 3 minutes until uniformity is obtained. Do not attempt to mix partially nor add any thinning materials.

TECHNICAL PROPERTIES:

Colour:	Green for mixed material
Mixed density:	1.4 ± 0.1 g/cm ³
Compressive yield strength: ASTM D695	≥ 50 MPa @ 7 days
Bond strength by slant shear: (old/new concrete) ASTM C882	≥ 10 MPa @ 14 days moist cure
Water absorption: ASTM D570	< 0.2%
Full cure:	7 days @ 25°C 5 days @ 40°C
Typical minimum overlay time:	2 hr @ 25°C 1 hr @ 40°C
Typical maximum overlay time*:	9 hr @ 25°C 5 hr @ 40°C
Gel time**: ASTM C881	≈ 3 hr @ 25°C
Viscosity: ASTM D2393	40 ± 10 poise @ 25°C (medium viscosity)
VOC: ASTM D2369	< 50 g/ltr (comply with LEED)

**Minimum and maximum overlaying times depend on the ambient weathering conditions. In general the new concrete/cementitious material should be only applied over tacky layer of Quickmast 108.*

***Value determined based on viscosity change.*

Quickmast 108 is designed to have an overlaying time of 9 hours at 25°C and 5 hours at 40°C. This should allow for subsequent works such as steel reinforcement fixation and shutter erection.

APPLICATION

Quickmast 108 should be applied immediately after mixing using a short haired paint brush. The material should be painted evenly across the whole surface and left until it becomes tacky (typically 2 hours at 25°C and 1 hour at 40°C) before the new concrete, screed or mortar is placed.

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Care should be taken to apply the new concrete, screed or mortar within the overlay time specified in Technical Properties.

Failure to do so will have an adverse result and the material will form a de-bonding plane rather than a bonding coat.

Minimum application temperature is 5°C while temperatures exceeding 35°C will decrease pot life and setting time.

Notes:

- » If temperature of the material is less than 12°C, it is needed to elevate their temperature to 25°C before the application.
- » And if the ambient and the substrate temperature is less than 5°C, don't use the material.
- » Also, at high temperatures (35°C and above), cooling the material is needed before the application. And try not to make the application in the middle of the day or under direct sunlight.

CLEANING

All tools should be cleaned immediately after finishing by DCP solvent. Hardened materials should be cleaned mechanically.

PACKAGING

Quickmast 108 is available in 1 kg (0.7 litre) and 5 kg packs (3.6 litre).

COVERAGE

2.5 - 3.0 m²/kg.

STORAGE

Quickmast 108 has a shelf life of 18 months from date of manufacture if stored at temperatures between 15°C and 30°C.

If these conditions are exceeded, contact DCP Technical Department for advice.

CAUTIONS

HEALTH AND SAFETY

Quickmast 108 should not come in contact with skin or eyes.

Rubber gloves and eye protection should be worn all the time. The use of barrier cream is recommended on exposed areas of the skin.

In case of contact with eye, rinse with clean water and seek medical consultation.

For further information, refer to the Material Safety Data Sheet.

FIRE

Quickmast 108 is nonflammable.

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- » Building products.
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Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

