

Quickmast EC300

Three-component, water based epoxy modified cementitious mortar for surface levelling and sealing



Description

Quickmast EC300 is a three component, water based epoxy modified cementitious mortar used for levelling and finishing of concrete, mortar or stone surfaces.

Applications

Quickmast EC300 can be used as a levelling layer over concrete and mortar at thicknesses of 0.5 - 3.0 mm on vertical or horizontal surfaces.

Quickmast EC300 can be applied as a pore sealer for re-profiling, smoothing and levelling of concrete surfaces. It can be applied in new works or damaged concrete, providing improved chemical resistance.

Advantages

- ▲ Excellent resistance to a wide range of chemicals
- ▲ Breathable, allows for water vapour release.
- ▲ Excellent concrete protection
- ▲ Solvent free
- ▲ Can be applied on vertical and horizontal surfaces.
- ▲ Ideal preparation for smooth surface finishes
- ▲ For internal or external use
- ▲ Water and liquids impermeable
- ▲ High bond strength to concrete.
- ▲ Moisture tolerant.
- ▲ Excellent physical properties and mechanical strength.
- ▲ High Sulfate Resistance.

Method of Use

Substrate Preparation

All substrates should be free of any contaminants such as oil, grease, coatings and surface treatments. Concrete surfaces are to be mechanically prepared to remove laitance and achieve an open textured surface, abrasive blasting or scarifying equipment are preferred.

Substrate should have a minimum compressive strength of 25 N/mm² and a minimum pull-off strength of 1.5 N/mm². Surface must be free of standing water, it is recommended to blast clean substrates and clean from all debris, dust or loose particles before product application.

Surface defects such as voids and blowholes should be repaired before application. Consult DCP's Technical Department for the best repair material.

Technical Properties:

| | |
|--------------------------------|------------------------------------|
| Colour: | Grey |
| Mixed density: | 1.9 ± 0.1 g/cm ³ |
| Flexural strength: EN 196-1 | ≥ 6 MPa @ 28 days |
| Application temperature: | 5 to 38°C |
| Service temperature: | 5 to 50°C |
| Full cure: | 7 days @ 20°C |
| Pot life: | 30 min @ 25°C |
| Application thickness: | 0.5 - 3.0 mm |
| VOC: ASTM D2369 | ≤ 30 g/ltr (complies with LEED) |

If possible, apply the product on a small test area before actual application to check for any problems with the surface preparation.

Priming

There is generally no need for primer coat. In case of damp concrete surfaces or outdoor application consult DCP's Technical Department for advice.

Mixing

Quickmast EC300 comprises of three components, a resin base, hardener and filler which are pre-weighed to the correct proportions. Under no circumstances should part mixing be carried out.

To ensure proper mixing, a mechanically powered mixer or drill fitted with a suitable paddle should be used. Stir the base and the hardener individually to disperse any settlement. Entire contents of the base and hardener should be poured into a suitable size container and mixed mechanically for 2 minutes until a uniform colour and consistency are achieved.

Transfer the resin mixture into a separate container or a forced action mixer such as a creteangle type mixer, and add the filler part gradually, mix for a further 2 minutes or until the filler has thoroughly wetted out and a uniform consistency is obtained.



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Notes:

- ▲ Do not mix quantities more than needed.
- ▲ Once mixed material starts to stiffen, do not add any extra water as this will affect the final properties of the mix.

Application

Apply the mixed Quickmast EC300 onto the prepared substrate and spread evenly to the required thickness using a trowel or spatula ensuring that a continuous layer is obtained. If necessary, the applied layer may be finished with a moist neoprene sponge or brush.

Application can also be done mechanically using a hopper gun or wet spray technique. However, subsequent finishing by hand is still required.

Remarks:

- ▲ While mixing, ensure not to incorporate too much air.
- ▲ Do not use additional water, which will disturb the surface finish and cause discolouration.
- ▲ Freshly applied Quickmast EC300 must be protected from water and rain for at least 24 hours.
- ▲ Applied Quickmast EC300 should become tack free (typically after 24 hours) before applying any successive coating.
- ▲ Apply Quickmast EC300 on a falling temperature, application during rising temperature can cause cracks and pin-holing.
- ▲ If Quickmast EC300 is to be overcoated with other systems, consult DCP's Technical Department to check the product's compatibility.

Cleaning

All tools should be cleaned immediately with water. Hardened material must be cleaned mechanically.

Consumption

Approximately 1.9 kg/m² per 1 mm thickness. Consumption may differ depending on surface profile and porosity.

Packaging

Quickmast EC300 is available in 4 and 10 kg packs.

Storage

Quickmast EC300 has a shelf life of 12 months from date of manufacture if stored in dry conditions at room temperature in original unopened Packs.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

Cautions

Health and Safety

Quickmast EC300 should not come in contact with skin and eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Wear suitable protective clothing, gloves and eye protection.

In case of contact with eyes or skin, rinse immediately with plenty of clean water and seek medical attention immediately.

For further information, refer to the Safety Data Sheet.

Fire

Quickmast EC300 is nonflammable.

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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.

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