cemseal®

Technical Data Sheet

CEMSEAL MB200BC

A 3 PART EPOXY CEMENTITIOUS MOISTURE BARRIER SYSTEM FOR USE AS A SELF-SMOOTHING UNDERLAYMENT

DESCRIPTION

CEMSEAL MB200BC is a three component epoxy-modified cementitious self-smoothing floor screed designed as a moisture barrier and underlayment beneath resin flooring systems. It forms a dense, high-strength layer that equalizes residual moisture and provides an ideal surface for subsequent epoxy, polyurethane, or vinyl finishes.

FEATURES AND BENEFITS

- Excellent mechanical and early strength development
- Self-smoothing consistency and easy workability
- Solvent-free, low odor during application
- Damp-tolerant - can be applied on moist substrates
- High adhesion to concrete (concrete-failure bond)
- Compatible with wide range of resin topcoats
- Economical and fast-curing

RECOMMENDED USES

- Temporary moisture barrier (2-4 mm thick) below epoxy, polyurethane, or other resin floor coatings
- Levelling or patching of unfinished or mechanically prepared concrete surfaces
- Underlayment for carpet, vinyl, or tile finishes
- Repair and maintenance overlay for worn concrete floors
- Suitable for damp concrete substrates without standing water

PRODUCT INFORMATION

Colour / Finish	Light Grey, Matt
Packaging	Part A : 3 kg Part B : 1 kg Part C : 20 kg Part A + B + C : 24 kg set
Shelf Life	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging at a temperature of +10°C to +30°C
Density (mixed, 28°C)	~ 2.0 kg/L
Material Consumption	~ 2.0 kg/mm/m^2
Recommended Thickness	2-4 mm

TECHNICAL PROPERTIES

Properties	Test Method	Typical Value
Compressive Strength	BS EN 13892-2	> 40 N/mm^2
Flexural Strength	BS EN 13892-2	> 10 N/mm^2
Adhesion to Concrete	BS EN 13892-8	> 1.5 N/mm^2

APPLICATION INFORMATION

Ambient Temperature	+8°C to +30°C
Substrate Temperature	+8°C to +30°C; ≥ 3°C above dew point
Relative Humidity	≤ 85%
Substrate Moisture Content	Can be applied on green or damp concrete (no standing water)
Pot Life (at +25°C)	~ 20 min.
Recoating Time (at +23°C & 50% R.H)	24 - 48 hours

SUBSTRATE QUALITY & REQUIREMENT

- Minimum compressive strength: 25 MPa
- Minimum pull-off strength: 1.5 MPa
- Substrate must be clean, sound, and free of laitance, oil, grease, coatings, and contaminants
- Mechanically prepared (e.g. grinding or shot blasting) to CSP 3-5 profile
- High spots ground off, and all dust removed via vacuum

MIXING

1. Shake Components A and B individually.
2. Pour both liquids into a 20 L pail and mix briefly (~30 s).
3. Add Component C gradually while mixing for ≥ 2 minutes using a slow speed electric mixer (300-400 rpm) with helical paddle.
4. Ensure a smooth, homogeneous, lump-free mix. Do not add water.

APPLICATION

- Prime substrate with Cemseal P100WB to seal porosity.
- Allow 14-18 hours curing (tack-free) before applying CEMSEAL MB200BC.
- Pour the mixed CEMSEAL MB200BC and spread with a notched squeegee or pin rake set to desired thickness.
- Immediately roll with a spiked roller to level and release entrapped air.
- For optimum performance, apply ≥ 2 mm when used as a temporary moisture barrier beneath impermeable resin systems.

CLEANING

Clean tools and equipment with water before material hardens. Once cured, remove mechanically.

IMPORTANT NOTES

- Protect freshly applied material from rain, condensation, and strong wind for 24 hours.
- Do not apply below +8 °C or above +35 °C.
- Always check surface moisture content (< 4 %) before overcoating with vapor-tight resin systems (seal coat).
- Do not add water or solvent to extend pot life.

INSTALLATION SERVICE

Installation must be carried out by a licensed and trained contractor in accordance with Cemseal Industries installation guidelines and quality-assurance procedures.

Disclaimer:
The information and any recommendations relating to the application and end-use of all CEMSEAL products are provided in good faith based on CEMSEAL's knowledge and experience of the products. In applications, the differences in materials, and variances of substrates and actual site conditions can vary such that no warranty in respect of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be taken as inferred either from this information, or from any written recommendations, or from any other advice offered by CEMSEAL. The proprietary rights of third parties must be observed. All orders are accepted subject to our sale terms and conditions. All users should always refer to the most recent and up to date issue of the Technical Data Sheet for the product concerned, which is available on request. It is recommended that products should always be properly stored, handled and applied under tested and recommended conditions.

For More Information:

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