Ceramic CB-301

Construction Chemicals > Waterproofing Products > Bitumen Rubber-Based



Ceramic CB 301 is a cement-based, single-component, high-adhesion-strength, practical, ready-to-use powdered adhesive used for the application of ceramic and tile coverings.

■ Fields of Application

 Used for bonding ceramic and tile covering materials on horizontal and vertical surfaces indoors; on horizontal surfaces outdoors

■ Advantages

- Can be used safely in ceramic applications
- Resistant to water and frost
- Provides strong adhesion with polymer effect
- Complies with C1TE class

Surface Preparation:

The surface to be applied must be clean, and loose particles must be removed. The application surface must have sufficient strength. If there are wide cracks and gaps on the cleaned surface, they should be filled with CB 435 series repair mortars. No additives or similar chemicals should be added to the ready-mixed mortar.

Mortar Preparation

Add 25 kg of CB 301 Ceramic Adhesive to approximately 5.5-6.5 liters of clean water and mix with a low-speed mixer or trowel until lump-free. The prepared mortar should be rested for 5-10 minutes and then mixed again at low speed before use. The mixture should be consumed within 30 minutes.

B Application

The prepared CB 301 mortar should be applied to the surface using a notched trowel suitable for the tile size. A rubber mallet can be used to ensure that the bonded tile is securely seated on the surface and to remove any air bubbles in the mortar.

For tiles larger than 20 cm x 20 cm , a double-sided application method should be selected. After application, the surface should be protected from air currents and water. Final strength is reached after 28 days. The joints left optionally while laying ceramics and tiles should be filled with CB 817 series joint filler 24 hours after application.

Packaging

25 kg PE-reinforced kraft bags.

☐ Consumption

The mortar should be applied to the surface, and the thickness adjusted with a notched steel trowel. Depending on the size of the trowel teeth, the size of the tile to be laid, and the smoothness of the application surface, if the trowel size is 6x6x6 (mm), 3-4 kg/m² can be consumed for single-sided bonding, and 5-6 kg/m² for double-sided bonding. If the trowel size is 8x8x8 (mm), 4-5 kg/m² can be consumed for single-sided bonding, and 6-7 kg/m² for double-sided bonding.

6 Precautions

- Should be applied at temperatures between +5°C and +35°C.
- If the surface temperature is over +25°C, or surfaces with coarse plaster should be moistened.
- If the surface is newly plastered, it should be waited for at least 3 weeks
- If applied on existing tiles and drywall, Merks Prima conc Ab 640 primer must be applied first
- On gypsum surfaces, the surface must be roughened, and then Merks Prima conc Ab 640 primer must be applied
- Should not be applied on frozen surfaces
- Avoid applying in windy areas
- No dust or water should be added to expired mortar
- Should not be applied on frozen, thawing, or surfaces at risk of freezing within 24 hours
- For surfaces exposed to heavy traffic (e.g., industrial areas), Ceramic CB 301-Flex is recommended
- Cannot be applied on old painted surfaces
- Unused powder material should be tightly sealed in its packaging

Shelf Life

At least 12 months in moisture-free and dry environments, protected from frost.









TECHNICAL DATAS

Mineral fillers, polymer-reinforced additives, and cement **Material Composition** Gray / White powder Appearance (+5°C) - (+25°C) Application Surface Temperature Powder Bulk Density ~ 1,60 kg/l ~ 1,80 kg/l) Wet Bulk Density **Resting Time** 5-10 minutes (+5°C) - (+35°C) Application Temperature Pot Life 2 hours Service Temperature 20°C to +80°C Min. %90 Wetability After at least 20 min ≥ 0.5 N/mm² Tensile Adhesion Strength After Open Waiting \geq 0,5 N/mm² Initial Tensile Adhesion Strength ≥ 0,5 N/mm² Tensile Adhesion Strength After Water Immersion ≥ 0,5 N/mm² Tensile Adhesion Strength After Heat Aging Tensile Adhesion Strength After Freeze-Thaw Cycles \geq 0,5 N/mm² 12 months in unopened packaging in a dry environment Shelf Life 25 kg PE-reinforced kraft bag Packaging