

MasterCrete® N 735

Epoxy Modified Cement Based, Surface Finishing and Repair Mortar

Material Description

MasterCrete® N 735, is epoxy modified cement based, surface finishing and repair mortar with three components.

- Doesn't need to primer.
- Waterproof.
- High resistance to frost and thawing.
- Solvent free.

Areas of Application

- Protection of concrete elements in marine structures over sea,
- Providing sound and waterproof layer on concrete surfaces under epoxy insulation systems in purification plants,
- Providing sound and waterproof layer on concrete surfaces under epoxy and PU coatings in industrial plants,
- As a fine repair mortar on stone and cement based substrates with a thickness of 0.5-3.0 mm,
- Repair and insulation mortar on concrete substrates under aggressive chemical effects,
- Protecting the concrete elements against weather conditions in marine structures based over the sea.

Characteristics and Benefits

- Excellent adhesion to damp surfaces (there should not be any bleed water on the surface).
- Can be covered with epoxy based coverings within few days.

Processing Method

(A) Preparation of Substrate

The concrete surfaces must be sound and clean. It shouldn't be weakened by over-troweling and lack of curing. The concrete should be free of frost, curing membranes, waterproofing treatments, oil stains, laitance, friable material and dust. If there is a water leakage it must be drained or properly plugged. In hot weather, surfaces can be damped before application.

(B) Mixing

Components A and B into a clean mixing bucket and mix with a low speed mixer for 2 minutes. Then add component C slowly and mix with a 400 - 600 speed mixer for 3 - 4 minutes until a homogeneous and without lumps mixing is obtained. After resting for about 3 minutes and mixing again for 30 seconds, the material is ready for use. Water should not be added to the mortar during and after mixing.

Technical Properties

Product Chemistry	Contains Mineral Fillers, Polymers and Epoxy Modified Cement	
Color	Grey	MK
Mixed Density	2,00 kg/liter	
Compressive Strength (20°C) (28 days) TS EN 196	> 25 N/mm ²	
Bonding Strength (to concrete) (28 days)	> 1,5 N/mm ²	
Application Thickness	Min. 0,5 mm Max. 3,0 mm	
Pot Life 20°C	30 minutes	
Time to Cover-up	18-24 hours	
Fully Cured at 20°C	28 days	

Typical values are obtained from the test results of 4x4x16 mortar prism in 23°C and 50% relative humidity conditions. High temperatures shortens the curing and working time, lower temperatures extends the durations.

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Mixing Ratio

MasterCrete® N 735	Comp. A	Comp. B	Comp. C
Quantity	1,30 kg	2,30 kg	17,00 kg
Mixed Density	2,00 kg/liter		

(C) Processing

MasterCrete® N 735 should be applied to the prepared surface by using a steel spatula or steel trowel. Application thickness should be between 0.5-3.0 mm. If the application surface is small enough, the maximum application thickness can be 5 mm. For setting flatter surfaces, steel trowel or sponge can be used. After application, surfaces should be protected from atmospheric effects like as rain etc. for 24 - 48 hours after application

Consumption

2.0 kg/m² for obtaining 1 mm thick layer.

Point to Consider

- During the application the substrate and environment temperature should be between 5- 35°C.
- Resinous materials' pot life and curing times vary depending on the relative humidity, substrate and environment temperature. Reaction gets slow in low temperatures and it causes to extension on pot life and working time. On the other hand high temperatures speed up the reaction, which results to short pot life and working time. For full curing of material, both the substrate and environment temperature shouldn't be under allowed application temperature.
- MasterCrete® N 735 is provided in ready to mix pails and bag. Do not add any solvent, water etc. into the mixture during the application.
- Mixing should be made with proper mixers and do not allow mixing by hand.

Cleaning of Tools

All the tools and equipments must be cleaned by solvent after

the application. After MasterCrete® N 735 is hardened, it can only be removed from the surface mechanically.

Packaging

20,60 kg set

Component A: 1.3 kg tin

Component B: 2.3 kg plastic canister

Component C: 17.0 kg bag

Shelf Life

12 months after the production date under appropriate storing conditions. Opened packages have to be stored by tightly sealing the bag and must be used in one week.

Storage

Must be stored in unopened original packing, and in cool (+5°C - +25°C) and dry environment protected from freezing. The material must not be exposed to moisture or water. Pallets must be protected with stretch nylon. In short-term storing, maximum 3 palletes can be stowed on top of each other and delivery has to be according to first in first out system. In long-term storing, the palletes must not be stowed on top of each other.

Health and Safety

It is dangerous to approach the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children. For detailed information please consult the Material Safety Data Sheet.

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