

INNO-FLOOR FOX DOMINO® MORTAR BC

Cement Based, Self Levelling, High Strength, Ready to Use Levelling Screed

Description

FOX DOMINO® MORTAR BC is a cement based, self-levelling, high-strength, coloured levelling screed that can be applied up to 10-30 mm thickness and ready for final use.

Fields of Application

- Hospitals,
- Industrial Floors,
- Magazines and showrooms,
- Schools,
- Offices,
- Hotel, restaurant and cafés,
- Residences,
- Supermarkets,
- Shopping malls,
- As topcoat decorative coating,
- As levelling screed,
- As a concrete screed on old concrete,
- As a binder in exposed aggregate systems,
- As a binder in cement terrazzo.

Advantages

- High Strength.
- Can be applied by pump.
- Provides easy and fast application.
- Can be used as a topcoat.
- Can be polished and patterned.
- Economic.
- Mixed only with water.
- Self-levelling.

FOX DOMINO® MORTAR BC Technical Features

Structure of the Material	Mineral filler and polymer reinforced special cement	
Colour	Natural Grey, Cotto, White, Sand Beige, Anthracite grey, Camel, Straw	
Dry Density	1,35 kg/lt	
Fresh Mortar Density	2,02 kg/lt	
Levelling	23 cm	
Working Time	45 dk.	
Application Thickness	10 - 30 mm	
Application Surface Temperature	+5°C / +25°C	
Pedestrian Traffic	~3 hours	
Over Coating Time;		
For areas open for diffusion	~1 day	
For areas closed for diffusion;		
up to -10 mm	~1 day	
up to -30 mm	~3 days	
up to -50 mm	~7 days	
Compressive Strength	3 days	≥6,7 N/mm ²
Compressive Strength	7 days	≥10,1 N/mm ²
Compressive Strength	28 days	≥30 N/mm ²
Bending Strength	3 days	≥2,7 N/mm ²
Bending Strength	7 days	≥3,3 N/mm ²
Bending Strength	28 days	≥7,6 N/mm ²



The above values are given for +23°C and 50% relative humidity. High temperatures shorten the time, low temperatures extend the time.



Surface Quality

Concrete substrates to be applied must be strong and have sufficient compressive strength (at least 25 N/mm²), tensile strength at least 1.5 N/mm², humidity should be maximum 4%, ground temperature should be minimum +8°C. In addition, it should be noted that the dew point of the ground is above +3°C. The substrate must be clean, dry and free from any foreign matter such as dirt, oil, grease, coating, surface curing materials etc. that will prevent adhesion to the surface.

Application Procedure

Substrate Preparation

Concrete substrates to be applied should be prepared in a way to remove an open porous surface by removing cement grout using abrasive equipment (Shot blasting, milling, diamond polishing, etc.). Weak concrete pieces should be removed from the surface, small gaps, holes should be made completely open. The resulting dust should be cleaned with the help of an industrial vacuum cleaner.

Mixing

Put the amount of water indicated on the package in a clean mixing bowl. Slowly add FOX DOMINO® MORTAR BC into the water and mix for 3-4 minutes at 600/1000 rpm until you get a homogeneous mixture with the electric mixer and the appropriate mixing tip. Clumping of material at the bottom of the bucket should not be allowed and these pellets should be distributed. After waiting for about 1 minute, mix it for another minute and make it ready for use.

Mixing Ratio

For 25 kg/1 bag of FOX DOMINO® MORTAR BC approximately 4,75±0,25 lt of water should be used.

For 1 kg of FOX DOMINO® MORTAR BC approximately 190±10 ml of water should be used.

Application

Primer

FOX DOMINO® MORTAR BC should be primed to increase the adherence of the levelling screed to the floor, to reduce air bubbles and to prevent absorption of the mixing liquid from the floor. In primer selection, surface properties should be examined and the time requirement should be calculated. The floor should be primed with FOX POLYHAFT FC305 2K primer. When the primer is wet, levelling screed should be started.

Coating

FOX DOMINO® MORTAR BC is poured onto the surface, applied with a comb or a suitable trowel in the desired thickness. If necessary, it can be passed over the surface with a spiked roller or alternatively, the FOX DOMINO® MORTAR BC can be patterned with a suitable trowel or hand tool according to the desired decoration when it is wet. FOX DOMINO® MORTAR BC can be applied up to 30 mm thickness at one time. Application thickness should be at least 10 mm on solid and dense subfloors.

Cleaning of the Tools

After the application, the tools and equipment used should be cleaned with water. FOX DOMINO® MORTAR BC can only be removed from the surface mechanically after it hardens.

Coverage

To obtain 1 mm thickness, 2,00 kg/m² FOX DOMINO® MORTAR BC should be use.

Watch Points

In application of FOX DOMINO® MORTAR BC, if the ambient and surface temperature is below +5°C or above +25°C, suitable temperatures should be expected. Applied fresh product should be protected from sunlight and wind so as not to dry quickly. Application should not be made in extremely hot, rainy or windy weather. Materials to be used in the application area should be brought and stored 1-2 days in advance and adapted to the ambient conditions. In applications to be carried out in extreme cold weather, the environment and ground temperature should be increased with heaters, and the materials to be used should be conditioned at +20°C - +25°C and made ready for application. Working and reaction times of cement based systems are affected by the ambient and ground temperature and relative humidity in the air. At low temperatures, the reaction slows down, which increases pan (pot) life and working time. High temperatures accelerate the reaction and the times mentioned above are shortened accordingly. For the material to complete its curing, the ambient and ground temperature should not fall below the minimum allowed value. After mixing, the material should be rested and then mixed again.

Package

25 kg Polyethylene reinforced kraft bag



Shelf Life

It is 12 months from the production date under suitable storage conditions. Opened packages should be consumed within 1 week by closing their mouths.

Storage

It should be stored in its original package, in a cool and dry place protected from frost. In short-term storage, maximum 3 pallets should be placed on top of each other and shipment should be made with the first-in, first-out system. In long-term storage, pallets should not be placed on top of each other.

Safety Precautions

It is dangerous to approach the storage and application areas with fire. Storage and application areas should be ventilated. During the application, work clothes, protective gloves, goggles, masks in accordance with the occupational health and safety rules should be used. During storage and application, it should not be contacted with the skin and eyes, should be washed immediately with plenty of water and soap, and if swallowed, seek medical attention immediately. Food and drink materials should not be brought to the application areas. It should be stored out of the reach of children.

For detailed information, please refer to the Material Safety Data Sheet.

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