



# DURAFIX BETON (FIXBETON)

CEMENT BASED, HIGH STRENGTH INDUSTRIAL FLOOR TOPPING

- High strength topping for industrial floors
- Application thickness from 8 mm to 15 mm
- High compressive and tensile strength, excellent resistance to abrasion
- Fast setting

## DESCRIPTION

**DURAFIX BETON** is one component, cement based and polymer reinforced fine floor topping with hard aggregates and enhanced cement mixture that provides excellent stability and strength.

## TYPICAL APPLICATIONS

- Internal and external use,
- Raw concrete floors (beton brut),
- To repair surface irregularities at concrete floors,
- Before marble, granite, natural stone tiling applications,
- Before carpeting, PVC, laminate tiling applications,
- Workshops, factories and production facilities,
- Power plants,
- Hospitals and laboratories,
- Garages and parking lots,
- Shopping centers and stores,
- Pedestrian ways and exposed concrete floors.

## ADVANTAGES

- High compressive, tensile and bending strength, and excellent resistance to abrasion.
- Resistant to water, humidity, lubricants, mineral oils, mild acids, alkalis, and sea water.
- 8 to 15 mm. thick fine topping.
- Fast setting. Suitable for mild pedestrian traffic after 24 hours.
- Suitable for use in working factories without disturbing production activities.
- Easy and fast application saves time and money.
- Non-shrinking.
- Achieves excellent bonding.

## TECHNICAL PROPERTIES

**Color:** Grey

**Physical Appearance:** Powder

**Density:** 2,00 (±0.05) g/cm<sup>3</sup>

**Application Temperature Range:** +5 °C - +35 °C

**Time Required For Open Traffic:** min. 24 hours

**Service Temperature Range:** -30 °C - +80 °C

**Pot Life:** 45-60 min.

**Abrasive Resistance (TS 699):** <3,0 cm<sup>3</sup>/50 cm<sup>2</sup>

**Compressive Strength (2th day):** ≥ 45 N/mm<sup>2</sup>

**Compressive Strength (28th day):** ≥ 65 N/mm<sup>2</sup>

**Bending Strength:** ≥ 10 N/mm<sup>2</sup>

Above given data is applicable under 23 °C and 50% relative humidity

## DIRECTIONS FOR USE

### SURFACE PREPARATION

- Application surface should be clean, and free from dirt, oil, paint, loose particles, mortar and plaster residues.
- Splash some water onto the surface. If water droplets are observed on the floor, repeat the cleaning process (as the floor is not cleaned properly). If water is absorbed, proceed with the application.

### PRIMING

- Apply priming agent (**REBOND SOLID**) onto the application surface in order to maintain the required bonding strength between **DURAFIX BETON** and the sub-floor. The consumption quantity of **REBOND**

**SOLID** is approximately 0.250 to 0.350 kg/m<sup>2</sup>, depending on the absorption rate of the application surface.

### MIXING AND APPLICATION

- Volume of the mixture should be determined according to the capacity of cement mixer. The mixer should be damped before the first mixing process. There shouldn't be any water accumulations in mixer.
- Add water at the ratio of 11% (±1%).
- Add **DURAFIX BETON** into the mixture while the cement mixer is running.
- Mix for 3 to 5 minutes.
- **DURAFIX BETON** should be poured onto surface properly and should be floated by a power float or a wooden trowel.
- When the topping is hard enough (barely seen foot trace) a bull float or a mechanical pan float should be applied.

### JOINTS

- Joints should be cut in regards with the structural system of building and the hydration process. Use **DURADERZ** as joint sealant.

### CURING

- Use **INTERCURE FL** or **DURAFLEX** as a curing agent, and a protective agent with **DURAFIX BETON**.

### WATCHPOINTS

- Pay attention to the consistency of application surface before/ during application. In case concrete has set or water content of concrete is insufficient, do NOT sprinkle water onto the material.
- Float with an unpainted, stainless steel pan and polyamide blades for best color results.
- Application should not be carried on under direct sunlight or wind as such effects may cause early drying of the surface and thus result in cracking.
- Ambient and subsurface temperatures should not be lower than +5 °C.

### CONSUMPTION

2.0 kg/m<sup>2</sup> for 1 mm thickness.

### PACKAGING

25 kg craft bag.

### STORAGE and SHELF LIFE

Store in dry and cool locations. Shelf life is 12 months under suitable storage conditions.

### HEALTH and SAFETY

As with all chemical products care should be taken during use and storage. Avoid contact with food, skin, clothes, eyes and mouth. If accidentally ingested seek immediate medical attention. In case of contact with skin or eyes, wash with a plenty of water and soap. Should be kept away from children. Reseal containers after use. Please consult Material Safety Data Sheet (MSDS) for further information.

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