

## 1 \ ABOUT THIS PRODUCT

**BE 45** is a Dry Mix Concrete. It is factory produced from carefully selected raw materials, thus assuring constancy and quality. It only requires the addition of water on site.

## 2 \ SUITABILITY

**BE 45** is a Dry Mix Grey or White Concrete, for the production of site mixed concrete, equivalent to a C35/45•XC4/XF1/XA1 (GB)•C10,2•D<sub>max</sub>5•S3 concrete, according to BS EN 206-1.

## 3 \ PACKAGING

**BE 45** is supplied on 25 kg bags.

## 4 \ STORAGE AND SHELF LIFE

**BE 45** must be kept on its bag until usage. When stored unopened in a dry place at temperatures above 5°C, and sheltered from direct sunlight, shelf life is 12 months from date of manufacture.

## 5 \ TECHNICAL DATA

	BE 45 Grey	BE 45 White
Maximum aggregate size	5 mm D <sub>max</sub> 5	
Mixing water	9,5% 2,4 ℓ per 25 kg bag	
W/B Ratio	≤ 0,45	
Cement content (CEM II/A), considering the prescribed mixing water of 8%	≥ 400 kg/m <sup>3</sup>	≥ 380 kg/m <sup>3</sup>
Consistency class (Slump)	100 a 150 mm Class S3	
Compressive strength, after 28 days Testing with Concrete Cubes	≥ 45 N/mm <sup>2</sup> Class C35/45	
Chloride content	Class Cl 0,2	
Environmental exposure class (Estimated BS EN 206-1, 50 years life time)	XC4 / XF1 / XA1	
Yield (mass of Dry Mix necessary to obtain 1 m <sup>3</sup> of fresh concrete)	2200±200 kg/m <sup>3</sup>	

These results were obtained in controlled laboratory conditions, using the prescribed mixing water, in observance of the EN 206-1.

## 6 \ PREPARATION AND APPLICATION

### 6.1 \ Substrate preparation

- All surfaces must be sound, clean, suitably dry and free of any material which may impair adhesion.
- If applied over an absorbent base material, make sure the substrate is moist (but not wet) before pouring the concrete.

### 6.2 \ Application

Add and thoroughly mix 2,4 litres of water to each 25 kg bag, using a concrete mechanical mixer.

Allow the mix to rest for 5 minutes.

Once mixed, this product must be immediately used. No further water may be added. Do not add any other products or materials.

### 7 \ GOOD PRACTICES

**DO NOT ADD ANY OTHER MATERIALS TO THIS PRODUCT.**

#### 7.1 \ Mixing water

The mixing water must be clean, and preferably potable. Drinking water is generally suitable.

The mixing water must be adequate for usage in concrete, according to any applicable regulations.

Once the mixing is done, do not add any further water.

#### 7.2 \ Climate exposure

**BE 45** must not be applied if the environmental temperature is below 5°C or above 30°C.

Do not apply on top of frozen substrates, or on substrates that are likely to freeze.

In order to assure proper curing, keep the surface of the applied concrete moist, especially if applied under windy conditions and/or direct intense sunlight.

#### 7.3 \ Final coatings over concrete

When the concrete is to be used as a base for a non-mineral coating system (Linoleum, Epoxy, adhesive fixed wood, etc...), surface humidity should be measured just before their application and the coating system manufacturer should be contacted regarding this issue.

## 8 \ HEALTH AND SAFETY

Contains cement (Contains chromium (VI). May produce an allergic reaction). Harmful by inhalation. Irritating to eyes and skin. Keep out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical help. After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective clothing, gloves and eye/face protection. Do not swallow.

For further information, please request the Material Safety Data Sheet for this product.

**Any information presented on this document is, to the best of our knowledge and on the issue date, true. This document can be revised, and any information changed, without prior warning. Our responsibility goes only as far as the quality assurance of the product, and, thus, does not cover any eventuality that may arise from using this product in any form different from its intended use.**

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