

Cebex 031

Integral waterproofing admixture for screeds, renderings and mortars

Uses

To waterproof cement/sand mixes such renderings, brickwork mortar, screeds and granolithic toppings. Ideal for swimming pools, sea walls, tunnels, basements, etc.

Advantages

- Chloride-free
- Water absorption
- Workability
- Easy to use
- Integral

Description

Cebex 031 is a red/pink liquid which contains an air entraining plasticiser and hydrophobic material that impart fattiness to the mortar, which when applied to the substrate, facilitate spreading, and reduce cracking and crazing.

Technical support

Fosroc provides a technical advisory service for on-site assistance and advice on admixture selection, evaluation trials and dispensing equipment. Technical data and guidance can be provided for admixtures and other products for use with fresh and hardened concrete.

Properties

Specific gravity: 1.2 at 20°C.
Calcium chloride content: Nil to BS 5075

Workability: The workabilities of mixes with and without Cebex 031 were compared using the flow table method (BS4551)

Mix

1part (by wt.) O.P.C
3 parts (by wt.) Leighton Buzzard sand (Grade M) BS 882.
Cebex 031 :1 part to 20 parts water (by volume).

Table 1

| Admixture | Flow | Water/ Cement | Water Reduction % |
|-----------|------|------------------|-------------------------|
| None | 79 | 0.52 | - |
| Cebex 031 | 102 | 0.52 | - |
| Cebex 031 | 85 | 0.46 | 11 |

Waterproofing

Independent waterproofing tests with Cebex 031 by Harry Stanger Ltd.

Mortar Slab: 1 part cement, 3 parts sand, gauged with 1 part Cebex 031 to 15 parts water.

Table 2

| PRESSURE OF WATER | | Pressure maintained for- hours | Qty. of water percolating through Specimen per hour |
|-------------------|----------------|---|---|
| kN/m ² | Metres Head | | |
| 137 | 14 | 1 | Nil |
| 215 | 21 | 1 | Nil |
| 274 | 28 | 1 | Nil |
| 343 | 35 | 1 | Nil |
| 519 | 52 | 1 | Nil |
| 686 | 70 | 1 | Nil |
| 862 | 87 | 1 | Nil |
| 1029 | 105 | 1 | Nil |

This test result shows no percolation even with a 105 m head of water

Standards specification

"The mortar shall be waterproofed with Cebex 031 as supplied by the manufacturers and used strictly in accordance with their instructions"

For a more complete specification, the following paragraph can be added:

"For screeds, renderings and mortar:

The mix shall consist of :-

1 part cement (state type)

3 parts sharp washed sand, preferably to BS 882.

Grade M gauged to a trowelling consistency with a mixture of: 1 part Cebex 031 to 20* parts water."

(*15 parts water for renderings subjects to water pressure).

Application instructions

Preparation

All surfaces to be coated with Cebex 031 mortar must be sound, clean and free from dust or loose material. Oil and grease should be removed with a solvent based industrial cleaner such as Fosroc Chemical Degreaser (details on request). The surface should be suitably roughened to provide a mechanical key

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and dampened down to avoid excessive suction during the early stages of the hydration process.

When waterproof brickwork is required, care should be taken to ensure that the joints are completely filled.

For waterproofing leaking tanks and basements, pre-treatment with an application of a suitable quick-setting compound such as Conplast QS may be necessary. These are used to plug leaks and to render walls through which water is seeping, before applying a Cebex 031 mortar.

Mixing

Before use, roll container backwards and forwards to stir contents thoroughly.

Cebex 031 is normally used at the ratio of 1 part to 20 parts water. For renderings to tanks and basements subject to water pressure, a ratio of 1 part Cebex 031 to 15 parts water should be used. Cebex 031 is best added to the gauging water, but it can be added directly to the mixer. Being a liquid it disperses easily throughout the mix. Only sharp washed sands, free from all clay and other fine material, should be used. Preferably the sand should conform to BS 882, Grade M.

Coating

A minimum of two coats of Cebex 031 render should be applied, each coat lightly scratched before further rendering is applied. Adequate coving is essential at all wall to floor and wall to wall joints. The surface must be fully cured as rapid drying out will result in cracking and crazing, thereby destroying the water-tightness of the structure.

Estimating

Supply

Cebex 031 in 20 and 210 litre containers.

Coverage/Dosage

Cebex 031 for screeds, renderings and mortar is added at the rate of 1 part to 20 parts water. At 50 mm thickness, 1 litre covers approximately 2 m².

Cebex 031 for renderings in tanks, basements, etc., subject to water pressure, is added at the rate of 1 part Cebex 031 to 15 parts water. At 10 mm thickness, 1 litre covers approximately 6.5 m².

Precautions

Health and safety

Cebex 031 is slightly toxic and must not be ingested. It is mildly alkaline and prolonged contact with the skin must be avoided. Splashes to the skin should be removed with water. In the event of splashes to eyes, flush immediately with plenty of water and seek medical advice.

If contact with eyes occurs, wash well with water, and immediately seek medical advice.

Should Cebex 031 be subjected to severe frost, the contents of the container must be stirred before use when temperature rise.

Additional information

Cebex 031 was formerly known as Conplast Prolapin 031.

Technical data and guidance can be provided on a wide range of concreting aids including, plasticisers, accelerators, retarders, air entraining agents, mould release agents, workability aids and repair materials.

Cebex is the trademark of Fosroc International Limited



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