VICATILE-B®

High performance, one component, industrial tiles or bricks bedding mortar

Description

Vicatile B is **Prompt** cement based premixed mortar. The mix design includes silica quarts fillers, graded high purity sands, and a synergistic blend of admixtures. The mix contains no chlorides, ferrous metal or other deleterious materials. The product is pre-blended and ready for mixing on site to produce a non-shrink, easy to apply, homogenous mortar which rapidly hardens to a strong bonding and impervious material ideal as a bedding mortar for tiles or bricks.
Vicatile B may be applied on all types of substrates; concrete, bricks or stones.

Advantages

- Decreased permeability as well as characteristics improvement over 10 continued years.
- Non-shrink.
- Continuous sealing of cracks and voids by autogeneous healing due to the slow hydration of Dicalcium silicate (C_2S).
- Resists alkalis and acids of PH as low as 4.
- Resists carbonation providing excellent protection to steel reinforcement.
- Formulated for short and long term efficiency – Life time.
- Nontoxic, suitable for food industry and potable water.
- Excellent adhesion.
- Cost effective compared to resinous mortars.
- Easy to apply, saves time.

Uses

Vicatile B can be easily used to bed tiles or bricks in industrial areas or in areas which are subjected to heavy static or movable loads. It will transfer the applied loads from the tiles or bricks to the concrete substrate without any deterioration or bond failure.

Standards & Specifications

Color	Grey
Setting time	Initial: 50 min at 21° C
	Final: 1.5 hour at 21° C
Toxicity	Non-toxic
Fresh density	2.2 Kg/liter
Adhesion (EN 1348:2007)	24hours: 0.6 N/mm^2 AF-T
	7 days: 1.3 N/mm^2 AF-S
	28 days: 1.7 N/mm^2 AF-T

Linear Shrinkage typical value at 28days according to BS EN 12617-4 (%): 0.017%
Linear Expansion typical value at 28days according to BS EN 12617-4 (%): 0.003%
Compressive strength (Mpa) according to EN196-1 typical values are as follows:
Water to powder ratio = 0.13 by weight

Age				
24 hours	7 days	28 days	56 days	120 days
15 Mpa	22 Mpa	30 Mpa	39 Mpa	56 Mpa

Compressive strength is increasing thereafter.

Package & Coverage

Vicatile B is supplied in 25 Kg plastic bags (other sizes maybe available upon request).
After mixing with water, the 25 Kb bag yields about 13 liters of mortar covering 2.6 m² of 5 mm thickness on an even surface.
Allowance should be made for any possible wastage when estimating.

Application Instructions

Surface preparation
All substrates should be clean, free from dust, loose particles, grease, oil or any other foreigner matter.
All concrete surface defects (Honey combs, Rock pockets, air voids ……etc.) should be repaired following a proper repair procedure, using **Vicarep, Vicalevel or Vicaseal mortar**, water is to be added to the dry mix while mixing with gloved hands to a mastic consistency. Before applying **Vicatile B**, all surfaces should be saturated with water with no running water (saturated surface dry) just before application.

Mixing
- In a suitable container add about 3.00 – 3.50 liters of potable water, depending on the required workability, and start mixing with a slow speed drill (350 - 450) rpm while adding gradually the content of a 25 Kg bag of **Vicatile B** for enough time to produce a homogeneous mix.
- Mechanical mixing is essential for a rapid and homogeneous mix. Forced action pan mixers or free fall mortar mixers are suitable.

Application
- The **Vicatile B** mortar will be laid by trowel on the prepared substrate with a thickness higher about 5-10 mm than needed.
- The minimum bedding thickness is 5 mm.
- The tile will be placed and rammed to its final position and the extra mortar will be collected and reused.
- All joints in the substrate should be respected while tiling.
- Mortar may be laid in two or more layers for big thicknesses depending on site circumstances.

Precautions
- Protect the **Vicatile B** bags from direct sun rays or any other source of heat before use, this can lead to a very fast setting.
- Avoid working on hot substrates.
- Avoid mixing with hot water.
- **Avoid contact with gypsum or any other sulfates on substrate, mixing water or curing water in plastic state.**

Health and safety

Vicatile B is alkaline when mixed with water and should not come into contact with skin or eyes. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs, wash thoroughly with clean water. Should eye contact occur, rinse immediately with plenty of clean water and seek medical advice.
Full health and safety data are given in Product Safety Data Sheet.

Storage & shelf life

Vicatile B should be stored in normal temperature and closed shaded dry area in undamaged original packing. It is recommended to be re-tested after 6 months from the production date.

Technical support

For any technical support, please consult our technical office or representatives.

More information

Please refer to the **PROMPT** technical document and the CD rom of VICAT special binders.