

VICAMIX R®

Edition 08023

Powder additive to produce non sagging shrinkage compensating mortar

Description

Vicamix R is a mortar powder additive based on **Vicat** special binders and rheology adjustors. When added to Portland cement mortar, a non-sagging shrinkage compensating mortar is produced with enhanced workability, mechanical performance and minimized or eliminated cracks caused by drying shrinkage.

Advantages

- Increased strength due to the hydration process and lower water / cement ratio.
- Accelerated setting and hardening.
- Increased adhesion due to reduced shrinkage.
- Consequently reduced permeability and increased resistance to carbonation and chemical attack in aggressive environments.
- Economical and easy to use.
- Ideal for large scale repair projects where subjected to mix design and testing.
- Chloride free.

Uses

Mortars produced by the addition of **Vicamix R** can be used in, but not limited to, the following applications examples:

- Concrete and masonry repair by patching or shotcreting.
- Resurfacing of concrete prior to tilling works in swimming pools and water tanks.
- Floor screeds.
- Tiles and bricks bedding and bonding.
- Renders.

Dosage

10% - 20% of the Portland cement weight.

Ideal dose is 10 Kg **Vicamix R** pack per 50 Kg Portland cement bag.

This dosage should not be exceeded otherwise extra expansion can occur.

Guide mix at 20% of Portland Cement

type	By Weight (Kg)					By Volume (50 kg Cement bag capacity)					Yield (L)
	Portland cement	Vicamix R	Harsh Sand	Size 1 Gravel	Potable Water	Portland cement	Vicamix R	Harsh Sand	Size 1 Gravel	Potable Water	
Mortar	50	10	150	---	24 L*	1	10Kg pack	2	---	24 L*	100
Concrete	50	10	75	150	24 L*	1	10Kg pack	1	2	24 L*	125

*Not applicable for Dry mix process.

The sand to be used should comply with a recognized standard.

For non-structural purposes, the sand dosage may be increased, and the **Vicamix R** dosage may be decreased.

All mixes should be designed upon convenience site trials and/or experience in field.

Application Instructions

Surface preparation

A good application is only as good as the preparation.

In order that maximum bond strength is achieved, all substrates should be sound, clean, and free from laitance, dust, loose particles, grease, oil or any other foreigner matter and all surfaces should be saturated with water with no running water (saturated surface dry).

To insure optimum bonding, the mortar may be applied over a wet coat of **Vicabond** or a suitable bonding agent may be used wet on wet application.

The use of a bonding agent will never overcome the bad surface preparation.

Mixing

- Dry mix all the components until homogenization prior to the addition of potable water.
- Mechanical mixing is essential for a rapid and homogeneous mix.
- Forced action pan mixers or free fall mortar mixers are suitable.

Application

- The general practice rules apply for different applications.
- Where build up is imposed, successive layers will be applied by the wet on wet technique where each layer is fused to the previous one immediately or by allowing initial set to take place (1-2 hours) and then applying the next layer into the previous one.
- Curing is very important at least during the first three days. It can be done by the use of water means (soaking, wet burlap, wet sand ...etc.) or by the use of a suitable curing compound.

Precautions

- Protect the **Vicamix R** 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.
- The stated dosage should not be exceeded otherwise extra expansion can occur.
- **Avoid contact with gypsum or any other sulfates on substrate, mixing water or curing water in plastic state.**

Health and safety

Vicamix R 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.

Storage & shelf life

Vicamix R 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.

Disclaimer...The information contained herein is included for illustrative purpose only and, to the best of our knowledge, is accurate and reliable. Hemts cannot however under any circumstances make any guarantee of results or assume any obligation or liability in connection with the use of this information. As Hemts has no control over the use to which may put its products, it is recommended that the products be tested to determine if suitable for a specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine suitability of products for specific application and assume all responsibilities in connection therewith.

Hemts Construction Chemicals Ltd.

Head quarter: 35 ElGazayer St. 11435 Maadi, Cairo, Egypt
Factory: CPC industrial compound, 6th of October, Giza, Egypt
Tel: (+202)27030503 - 27542745 - 25180578 info@hemts.net

www.hemts.net

