

VICAMIX-G®

Edition 08023

Powder additive for concrete and mortar to produce structural grouts and injection slurry

Description

Vicamix G is a mortar and/or concrete powder additive based on **Vicat** special binders and a high range water reducer. When added to Portland cement mixes, a flowable shrinkage compensating mix 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 projects where subjected to mix design and testing.
- Chloride free.
- Waterproof.

Uses

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

- Flowable grout, concrete or mortar, to fill gaps and/or voids where shrinkage compensation is required.
- Cementitious injection to stop active water seepage from cracks, joints and voids.
- General purpose concrete or mortar where shrinkage compensation, flowability, setting and hardening acceleration or reduced permeability are required.
- May be used as a soil injection material for soil stabilization and to stop water leaks.

Dosage

20% of the Portland cement weight (Grade 42.5 or more).

A 10 Kg **Vicamix G** pack per 50 Kg Portland cement bag.

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

Guide mix

Grout type	By Weight (Kg)					By Volume (*Cement bag capacity)					Yield (L)
	Portland cement	Vicamix G	Harsh Sand	Size 1 Gravel	Potable Water	*Portland cement	Vicamix G	*Harsh Sand	*Size 1 Gravel	Potable Water	
Mortar	50	10	100	---	22	1	10Kg pack	1.5	---	22 L	80
Concrete	50	10	75	150	22	1	10Kg pack	1	2	22 L	125
Injection Slurry	50	10	---	---	20	1	10Kg pack	---	---	20 L	40

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.
- Slow speed high torque (1 kW) drill with a mortar stirrer is suitable for injection slurry and mortar grout.
- Free fall concrete mixers are suitable for concrete grout.

Application

- The general practice rules apply for different applications.
- 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 G** 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

Vicamix G 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 G 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.

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