

Liquid accelerator for cement mortar

- reduces setting time to 15 sec. – 5 min.
- for plugging water leaks, honeycombs and cracks
- for fast setting mortars for grouting and repair of water leaks in channels and manholes

PRODUCT DESCRIPTION

VANDEX 4V is a liquid, highly alkaline additive for accelerating the setting time of cement mortar.

AREAS OF APPLICATION

- grouting and fixing works
- levelling of uneven substrates
- concrete repair of water leaks in channels
- temporary pre-plugging of water leaks in cracks, honeycombs and other defects

PROPERTIES

Diluted with water or undiluted (cf. "Mixing"), VANDEX 4V is added to the sand/cement mixture. It accelerates the setting process and assures curing of the mortar which will resist leaching out or mechanical stress.

VANDEX 4V is free of chlorides and solvents and is not corrosive to the reinforcing steel; however aluminium and galvanised metal will be corroded by VANDEX 4V.

Setting time:

Undiluted VANDEX 4V *	approx. 30 sec.
Diluted VANDEX 4V * (1 part VANDEX 4V + 4 parts water)	approx. 5 min.

* using fresh cement, temperature of material and air: 20 °C

SURFACE PREPARATION

The substrate to be treated must be sound and roughened. Any adhesion reducing substances like bitumen, oil, grease, remains of paint or laitance have to be removed by suitable means.

MIXING

VANDEX 4V must be mixed exclusively with normal fresh Portland cement and not with special cements.

Pre-mixing of sand and cement

VANDEX 4V can be mixed with pure cement. If a mixture of sand and cement is used, first mix the dry components in the proportion 1–3 parts sand and 1 part cement.

Dilution of VANDEX 4V

VANDEX 4V can be used undiluted or diluted with water (possible proportions: 1:1 to 1:4). The expert applicator will choose the suitable dilution according to the desired setting behaviour which will be influenced by the following parameters: type of cement, age of cement, proportion of cement/sand, water content of the mixed mortar, temperature of material and surroundings. If temperature is below 10 °C, water or cement or additives should be heated up first.

Mixing VANDEX 4V with sand/cement

First pour the liquid VANDEX 4V into a clean mixing container. Continue working swiftly as follows: Add sand/cement until liquid is covered, then mix briefly and vigorously to achieve a plastic, workable mortar.

Liquid and dry components must be mixed in this order. Do not restir or add more water after setting has started, otherwise mortar is unusable.

APPLICATION

Do not apply at temperatures below +5 °C, or to a frozen substrate.

In order to prevent material loss, mix only small quantities of VANDEX 4V.

After mixing, apply immediately to the intended place. Mould and press well (use heavy duty rubber gloves). Maintain pressure and do not move material until it has reached initial set. Then remove excess material. Finally, moisten the surface of VANDEX 4V and waterproof with a suitable Vandex coating.

Pre-plugging with discharge tube

First prepare the mortar mixture with VANDEX 4V, then insert tube into the leakage (e.g. PVC tube $\frac{3}{4}$ inches) to drain off the water. Fix the tube with fresh mortar and maintain pressure for at least 1 minute. Fill remaining hole, e.g. with VANDEX UNI MORTAR 1. When this mortar has reached min. 2/3 of its final hardness, remove the tube carefully and fill the cavity.

In extreme cases, more than 1 discharge tube may be necessary.

PACKAGING

10 l container

STORAGE

When stored in unopened, undamaged original packaging, shelf life is 24 months. Product is resistant to frost down to -20 °C.

HEALTH AND SAFETY

VANDEX 4V is corrosive.

Causes burns. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). – For further information please refer to Material Safety Data Sheet on www.vandex.com.

TECHNICAL DATA	
Appearance	clear liquid
Density [kg/l]	approx. 1.25
pH value	> 13
Other data	Does not contain chlorides.
All data is averaged from several tests under laboratory conditions. In practice, climatic variations such as temperature, humidity, and porosity of substrate may affect these values.	

The information contained herein is based on our long-term experience and the best of our knowledge. We can, however, make no guarantee since for a successful outcome, all circumstances in an individual case must be taken into consideration. Indications of quantities required are only averages which in certain cases might be greater.

Vandex

CONCRETE PROTECTION AND WATERPROOFING

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