

## Waterproofing Slurry for Sewage Treatment Plants

- with increased sulfate resistance
- as sealing and interior coating
- for open sedimentation tanks and open channels

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**Material** VANDEX BB 75 Z is a cementitious, ready-mixed surface waterproofer, resistant to water and moisture, for use in sewage purification plants and for sealing against ground water containing sulfate.

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**Areas of Application** VANDEX BB 75 Z is applied to surfaces such as concrete, masonry and render which have to be sealed and protected against the influence of domestic sewage.

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**Properties** Owing to its composition of cement, quartz with graded grain-size distribution and special chemical ingredients of an inorganic nature, VANDEX BB 75 Z is waterproof (tested up to 7.0 bar). It can be employed against active and passive water pressures. By using appropriate binding agents, VANDEX BB 75 Z is suitable for open tanks and channels in sewage treatment plants.

The initial and final bonding capability of VANDEX BB 75 Z is excellent, making it suitable to be applied to horizontal as well as vertical surfaces. It is durable, resistant to frost and heat after setting, but all the same permeable to vapour. VANDEX BB 75 Z is not a decorative material.

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**Surface Preparation** The substrate to be sealed must be firm and relatively even, and its surface open-pored and free from voids, open cracks or ridges. Bitumen, oil, grease or remains of paint have to be removed.

Laitance and unsound concrete have to be removed by bush hammering or sand blasting. The substrate should be well prewatered and slightly damp at the time of application.

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**Mixing** Place 25 kg VANDEX BB 75 Z in a clean container, add 5 - 5.75 litres of water for brush or trowel application respectively 5.75 - 6.25 litres of water for spray application and stir for at least 3 minutes with a mechanical mixer.

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**Application** VANDEX BB 75 Z may be applied with a brush, a trowel or spray equipment. Do not apply at temperatures below + 5°C, or to a frozen substrate.

A maximum of 4 kg/m<sup>2</sup> can be laid on in one application. Provide suitable protection against extreme weather conditions while setting.

## Consumption

Water sealing problem	Approx. minimum amount of sealing slurry to be applied	Minimum thickness of layer
Ground moisture	3 kg/m <sup>2</sup>	1.5 mm
Pressureless surface water and seepage	4 kg/m <sup>2</sup>	2.0 mm
Water under pressure	6 kg/m <sup>2</sup>	3.0 mm
Max. thickness of layer: 5 mm		

## Packaging

25 kg PE-lined paper bags.

## Storage

When stored in a dry place in unopened, undamaged original packaging, shelf life is 12 months

## Technical Data

Aggregate state	powder
Colour	grey
Bulk density	approx. 1,40 kg/l
Setting time	approx. 2 - 4 hours
Compressive strength	40 N/mm <sup>2</sup> 28 days water storage
Bending tensile strength	7 N/mm <sup>2</sup> 28 days water storage
Modulus of elasticity	2.16 x 10 <sup>4</sup> N/mm <sup>2</sup> 28 days air storage/23°C/50% relative humidity
All data are average values obtained under laboratory conditions. In practical use temperature, humidity and absorbance of the substrate may influence the above given values.	

## Health and Safety

VANDEX BB 75 Z contains cement.

Irritating to eyes and skin. May cause sensitization by skin contact. Keep out of reach of children. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves.

For further information please refer to Material Safety Data Sheet.

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.



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