BB 75 E Z

Elasticised waterproofing slurry for sewage treatment plants

- with increased sulphate resistance
- for open sedimentation tanks and open channels

Permeability to CO_2	s_D > 50 m
Water vapour permeability	class I s_D < 5 m
Capillary water absorption	w < 0.1 kg/m²·$h^{0,5}$
Crack bridging ability	A3 (20°C)
Adhesion strength	≥ 0.8 MPa
Reaction to fire	class E
Dangerous substances	complies with 5.3

CE
0761

Vandex Isoliermittel-GmbH
Industriestr. 19-23
DE-21493 Schwarzenbek
09
070/006
EN 1504-2:2004:ZA,1d,1e
Surface protection coating

PRODUCT DESCRIPTION

VANDEX BB 75 E Z is a two component polymer modified, cementitious coating. It consists of VANDEX BB 75 Z (dry component) and VANDEX ELASTICIZER PK 75 (polymer component)

AREAS OF APPLICATION

- substrates: concrete and masonry
- active or passive waterproofing and protection against water and moisture
- for cracks and areas of potential cracking
- foundations, slabs, retaining walls etc.

PROPERTIES

Owing to its composition of cement, quartz with graded grain-size distribution and selected additives, as well as the admixture of the elasticizing component, VANDEX BB 75 E Z provides a waterproof and elastic coating, which has an increased resistance against sulphate.

The initial and final bonding ability of VANDEX BB 75 E 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 E Z is an active barrier to carbon dioxide (CO_2).

SURFACE PREPARATION

The substrate to be treated must be sound and even, open-pored, roughened and its surface free from voids, large cracks or ridges. Any adhesion reducing substances like bitumen, oil, grease, remains of paint or laitance have to be removed by suitable means.

Water leaks must be stopped e.g. with the VANDEX PLUG.

Thoroughly moisten the substrate, it must be damp but not wet at the time of application. Any surface water on horizontal surfaces must be removed.

Brick- and blockwork substrates

Any remaining plaster, render or other substances that could inhibit bonding must be removed back to the substrate. Gypsum, remains of wood or other foreign material must be removed by appropriate means. Loose pointing must be routed out and the substrate cleaned thoroughly.

MIXING

Before use, shake the container of the polymer component well.

Mix 25 kg of VANDEX BB 75 Z with 10 kg of VANDEX ELASTICIZER PK 75 in a clean container for at least 3 minutes to a lump-free, homogeneous consistency. Use a high speed mechanical mixer.

Where site conditions require, rinse the container with clean water and add it to the mixture.

APPLICATION

VANDEX BB 75 E Z is applied with, trowel or suitable spray equipment.

Depending on the slurry consistency a maximum of 4 kg/m² can be applied in one working cycle. In most cases the application of more than one coat is recommended; please refer to relevant specification.

If several coats are applied the previous coat must not be damaged during application of the following coat. The waiting time before applying the following coat depends on local climatic conditions such as humidity, temperature, etc. The previous coat is textured by suitable means whilst still plastic to form a key.

Trowel application

First a scratch coat is applied for maximum adhesion to the substrate, working from the bottom up. Ensure that all cavities in the substrate are filled in order to exclude any trapped air.

Spray application

VANDEX BB 75 E Z can be applied with a suitable fine mortar spraying device. For maximum spray pattern it should be possible to adjust volume of product as well as air pressure and volume. The nozzle diameter is approx. 6 mm.

The first layer of Vandex is applied in circular motion with the spray nozzle held at a 90° angle to the substrate. The material is then flattened and keyed.

The final layer can be left as a spray finish or treated to a specified finish.

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

CONSUMPTION

Type of water impact	Recommended overall application rate	Number of layers
Pressureless water	2.5–3.5 kg/m²	1-2
Water under pressure	3.5–5.5 kg/m² depending on water pressure	2-3

Note: Substrate and application conditions have to be observed. Depending on surface roughness, consumption may vary.

CURING

Provide suitable protection against extreme weather conditions (e.g. rain, sun, wind, frost) while setting. The freshly treated surfaces should be protected from rain for a minimum period of 24 h.

The VANDEX BB 75 E Z coating must be fully cured before getting in contact with water. Avoid formation of water films or condensation on top of coating during 7 days after application.

Provide a relative humidity of 60–80% and good air exchange in enclosed areas.

BACKFILLING

Backfilling can be carried out 3 days after completion of the Vandex treatment. If there is a risk that the layer of Vandex will be damaged during back-filling (sharp-edged material) it must be protected by suitable means.

PLASTERING/COATING

Surfaces treated with Vandex products which are to be coated or painted should be left to cure for at least 28 days. Coatings on top of a Vandex treatment have to be alkali resistant. Decorative coatings applied on the passive water pressure side are recommended to be water vapour permeable. When applying paint on an elasticized polymer modified product, it must have equivalent elastic properties.

PACKAGING

VANDEX BB 75 Z: 25 kg PE-lined paper bag
VANDEX ELASTICIZER PK 75: 10 kg PE-container

STORAGE

VANDEX BB 75 Z: When stored in a dry place in unopened, undamaged original packaging, shelf life is 12 months.
VANDEX ELASTICIZER PK 75: Store in a frost-free place.
Shelf life in unopened, undamaged original packaging is 12 months.

HEALTH & SAFETY PRECAUTIONS

The Safety Data Sheet (SDS) must be read and understood prior to use.

TECHNICAL SERVICE

Tremco CPG Australia Pty Ltd has a team of Representatives who provide assistance in the selection and specification of products. For more detailed information or service and advice, call Customer Service on (02) 9638 2755 or fax (02) 9638 2955.

GUARANTEE/WARRANTY

Tremco CPG Australia Pty Ltd products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG Australia written instructions and (b) in any application recommended by Tremco CPG Australia, but which is proved to be defective, will be replaced free of charge.

Any information provided by Tremco CPG Australia in this document in relation to Tremco CPG Australia's goods or their use is given in good faith and is believed by Tremco CPG Australia to be appropriate and reliable. However, the information is provided as a guide only, as the actual use and application will vary with application conditions which are beyond our control. Tremco CPG Australia makes no representation, guarantee or warranty relating to the accuracy or reliability of the information and assumes no obligation or liability in connection with the information. To the extent permitted by law, all warranties, expressed or implied are excluded.

TECHNICAL DATA			
		Dry component	**Polymer component**
Appearance		grey powder	milky white liquid
		Wet mix	**Hardened**
Colour		grey	grey (VANDEX BB 75 E Z is not a decorative coating)
Density of wet mix	[kg/l]	approx 1.7	
Workability at 20°C	[min.]	approx. 30	
Setting time at 20°C	[h]		approx. 3–6
Crack bridging capacity at 20°C	[mm]		≤ 0.8
Further data			refer to CE marking

All data is averages of 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 certain cases might be greater.

Vandex®
Part of TREMCO Construction Products Group

HEAD OFFICE:
Tremco CPG Australia Pty Ltd
ABN: 25 000 024 064
Unit 12, 4 Southridge Street,
Eastern Creek, NSW 2766
P: (02) 9638 2755
E: tremco@tremco.com.au
www.tremco.com.au