

Application Guidelines

Related Product Information

- Data Sheet: VANDEX BB 75 E
- Material Safety Data Sheet: VANDEX BB 75 and VANDEX ELASTICIZER PK 75

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1. Preparation of Substrate

Concrete to receive VANDEX BB 75 E treatment must have a clean surface to ensure maximum bonding. Surfaces to be waterproofed should be examined for structural defects, and unacceptable conditions reported and remedied. Remove all cement laitance, shutter release agent, curing compound, loose particles, etc. by means of light, wet or dry sandblasting, high pressure water jetting or wire brushing.

Water leaks must be stopped in accordance with the VANDEX PLUG Application Guidelines.

Remove all protrusions and cut back to sound concrete, chasing out any honeycombed or damaged areas.

Construction joints and shrinkage cracks exceeding 0.3 mm should be routed out to a minimum depth of 20 mm. Shutter tie holes should be roughened.

Clean all chased out areas, shutter-tie holes, etc. and pre-water until the concrete is saturated. Following this, fill the areas with VANDEX UNI MORTAR 1 in layers, the number depending on the total layer thickness. The surfaces to be coated may be slightly damp, but must not be saturated with water.

2. Mixing

Before use, shake the liquid component well.

Mix 25 kg of VANDEX BB 75 (dry component) with 10 litres VANDEX ELASTICIZER PK 75 in a clean container for at least 3 minutes to a lump-free, homogeneous consistency. Use a mechanical mixer.

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

3. Climatic Conditions

Do not apply VANDEX BB 75 E at temperatures below +5 °C (40 °F) or to a frozen substrate.

4. Layer Thickness

Minimum layer thickness per layer: 1.5 mm

Maximum layer thickness per layer: 2.0 mm

Maximum layer thickness in total: 4.0 mm

5. Application Methods

5.1 Trowel application

A scrape coat of VANDEX BB 75 E is applied with a steel trowel for maximum adhesion to the substrate, working from the bottom up. All cavities and air holes must be filled in this first step of work, thereby excluding trapped air. The first layer is then applied to the specified thickness. VANDEX BB 75 E is applied in one or two layers as specified. If two layers are applied it is recommended that the second layer be applied whilst the first layer is still tacky. The waiting time before applying the second layer is approx. 2–4 hours, but depends on local climatic conditions such as humidity, temperature, etc. The first layer must not be damaged during application of the second layer.

5.2 Spray application

VANDEX BB 75 E can be applied with a suitable fine mortar spraying device. The equipment required and the air used must be adjustable so that the optimum spray pattern can be achieved.

The nozzle diameter is approx. 6 mm but depends on the spray gun used.

The compressor performance must be at least 5 bar pressure, delivering 500 l/min.

The first layer of VANDEX BB 75 E is applied using a circular motion with the spray nozzle held at 90° angle to the substrate. The distance between the spray nozzle and the surface will depend on the spray gun/compressed air used. The material is then flattened with a suitable trowel. This operation levels the surface and increases adhesion to the substrate.

VANDEX BB 75 E is applied in one or two layers as specified. If two layers are applied it is recommended that the second layer be applied whilst the first layer is still tacky. The waiting time before applying the second layer is approx. 2–4 hours, but depends on local climatic conditions such as humidity, temperature, etc. The first layer must not be damaged during application of the second layer.

In addition, it is recommended that the first layer is textured slightly using a suitable soft brush (e.g. wallpapering brush) whilst still plastic. This ensures maximum adhesion between the layers.

The final layer can be left direct as a spray finish or smoothed finely with the trowel. The spray finish provides an „orange peel“ type texture which is easy to clean.

6. Consumption

Ground Conditions:	Minimum thickness of layer:	Approx. minimum quantity to be applied:
1. Ground moisture	2.0 mm	4 kg/m ²
2. Pressureless surface water and seepage	2.0 mm	4 kg/m ²
3. Hydrostatic pressure	2.5 mm	5 kg/m ²

Please refer to the relevant Vandex product specifications for more detailed information.

7. Curing

Provide suitable protection against extreme weather conditions (e.g. rain, sun, wind, frost) while setting. The VANDEX BB 75 E coating must be fully cured before getting in contact with water. Provide a relative humidity of 40–60% and good air exchange in enclosed areas. Avoid formation of water films or condensation on top of coating during 7 days after application.

8. Painting

All surfaces treated with VANDEX BB 75 E, which are to be coated or painted, must be left to cure for at least 4 weeks. The paint must have equivalent elastic properties to VANDEX BB 75 E and in addition it has to be water vapour permeable and alkali resistant.

9. Backfilling

Backfilling can be carried out 3 days after completion of the VANDEX BB 75 E treatment. If there is a risk that the layer of VANDEX BB 75 E will be damaged during back-filling (sharp-edged material) it must be protected by suitable means.

10. Health and Safety

VANDEX BB 75 E contains cement.

Irritating to skin. Risk of serious damage to eyes. Keep out of reach of children. Do not breathe dust. 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 and eye/face protection. Provide good ventilation if handling bigger quantities or in enclosed areas. For further information please refer to Material Safety Data Sheet of VANDEX BB 75 and VANDEX ELASTICIZER PK 75.

The information contained herein is based on our longterm 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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