

Application Guidelines

Related Product Information

- Data Sheet & Material Safety Data Sheet:
VANDEX PREMIX

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1. Preparation of Substrate

Concrete to receive VANDEX PREMIX treatment must have a clean surface and an open capillary system to ensure chemical penetration and maximum bonding. Surfaces to be waterproofed should be examined for structural defects, and unacceptable conditions reported and remedied.

Remove all cement and 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 and 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.

2. Pre-watering

Prior to applying VANDEX PREMIX, carefully rinse all the surfaces to be waterproofed and pre-water with clean water.

Pre-water several times so that the concrete is thoroughly saturated. When VANDEX PREMIX is applied, the surface should be damp but not wet. Any surface water on horizontal surfaces must be removed.

3. Mixing

VANDEX PREMIX is mechanically mixed with clean water to a consistency of thick oil paint. Separate containers should be used for measuring the VANDEX PREMIX powder and the water. Approximate mixing ratio is 0.6 - 0.8 parts of water to 2.0 parts of powder (by volume).

Mix only as much material as can be used within 30 minutes and stir the mixture frequently. If the mixture starts to set do not add more water, simply re-stir to restore workability.

4. Climatic Conditions

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

5. Application Methods

5.1 Brush application

Apply the specified amount of VANDEX PREMIX as a slurry, in one or two coats according to specification, using a masonry brush. Spread the material evenly and work it well into the

surface. If more than one coat is required, apply the second coat whilst the first is still „green“.

5.2 Spray application

VANDEX PREMIX may be applied using appropriate compressed - air spray equipment (e.g. hopper gun). The size of the nozzle is approx. 4 mm.
The required air pressure is approx. 5 bar and the delivery of air 500 l/min.
Spray on two coats, according to the specification, in circular movements. Apply the second coat whilst the first is still „green“.

6. Consumption

Concrete surfaces to be backfilled

One coat of VANDEX SUPER at 0.75 kg/m² followed by one coat of VANDEX PREMIX at 1.0 kg/m², brush or spray applied „green on green“ (See also VANDEX SUPER product data sheet).

Basement retaining walls in hollow concrete blockwork

One coat of VANDEX PREMIX at 1.0 kg/m² followed by one coat of VANDEX SUPER at 1.0 kg/m², brush or spray applied „green on green“.

A 3:1 sand:cement render cast coat is then applied over the VANDEX layers whilst still „green“.

Basement retaining walls in lightweight concrete blockwork

Two coats of VANDEX PREMIX each at 0.75 kg/m² brush or spray applied „green on green“ followed by 3:1 sand:cement render coat.

Hollow concrete blockwork above ground

VANDEX PREMIX at 1.0 kg/m², brush or spray applied.

7. Curing and Protection

VANDEX PREMIX is cement-based and will cure and harden in the same way as ordinary concrete. Setting and hardening will depend on the surrounding temperature and humidity.

For maximum effectiveness from your VANDEX PREMIX treatment, it is essential that the layers are kept damp for at least 5 days and protected against evaporation by sun and wind.

Careful postwatering should be carried out at intervals, starting the day following the application. Alternatively, the surfaces can be covered with plastic sheeting, wet mats or moist sand.

The use of curing compounds is not recommended.

The freshly treated surfaces should be protected from frost for at least 5 days. If necessary, cover with insulation mats. In closed spaces and deep pits, air circulation should be provided for 24 hours following the VANDEX PREMIX treatment.

8. Decoration, Coating and Tiling

All surfaces treated with VANDEX PREMIX, which are to be coated or painted, must be left to cure for at least 4 weeks. At the end of the curing period, the surfaces should be saturated with water and neutralised with 1:8 solution of hydrochloric (muriatic) acid. Following this, the area must be thoroughly rinsed with water.

Precautions: When spraying with hydrochloric (muriatic) acid solution, use protective rubber clothing and goggles. When a plaster or render finish is required on top of the VANDEX PREMIX treatment, it is essential to apply a thin rough cast of sand and cement on the final VANDEX PREMIX layer when it has reached initial set.

If this is not practical, carefully clean the hardened VANDEX PREMIX surface and apply an appropriate bonding agent prior to rendering.

9. Backfilling

Backfilling can be carried out 3 days after completion of the VANDEX PREMIX treatment.

10. Additional Information

VANDEX PREMIX treatments are not decorative finishes. Discoloration of the treated surface may occur because of the chemical reactions between VANDEX PREMIX and the concrete and/or contact with water. Such discoloration in no way detracts from the waterproofing effect.

11. Health and Safety

VANDEX PREMIX 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 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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