Technical Data Sheet

VANDEX SUPER

Crystalline waterproofing

30-10-2026 / V 1

Description

VANDEX SUPER is a cementitious, ready-mixed, in-depth waterproofer. VANDEX SUPER is based on grey Portland cement.



Features and Benefits

- In-depth waterproofing and protection slurry
- Permanent active
- Applied to pressure or non-pressure concrete face
- Approved for drinking water structures
- Grey

Usage Purpose

It consists of grey Portland cement, specially treated quartz sand and a compound of active chemicals. When VANDEX SUPER is applied to a concrete surface the active chemicals combine with the free lime and moisture present in the capillary tract, to form insoluble crystalline complexes. These crystals block the capillaries and minor shrinkage cracks in the concrete to prevent any further water ingress (even under pressure). However, the Vandex layer will still allow the passage of water vapour through the structure (i.e. the concrete will still be able to "breathe"). In addition to waterproofing the structure, VANDEX SUPER protects concrete against sea water, waste water, aggressive ground water and certain chemical solutions. VANDEX SUPER is tested for use in contact with drinking water.

Areas Of Application

− substrate: concrete
− active or passive waterproofing and protection against water and moisture
− foundations, slabs, retaining walls, construction joints, sewage treatment plants, swimming pools, backfilled structural elements, etc.
− drinking water structures

Packaging

25 kg PE-lined paper bag

Storage

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

Certificates & Approvals

EN 1504-3:2005/ZA.1a CC fine mortar for non-structural repair

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BBA, CCT, Potable water; DWI listed, WRAS, Hygienic certificates, ACS, D.M.n.174

Technical Characteristics

Appearance		Grey powder VANDEX SUPER is not a decorative material
Bond Strength At 28d	[MPa]	1,4
Compressive Strength At 28d	[MPa]	39
Further Data		refer to CE marking
Setting Time At 20°C	[h]	1-2
Workability At 20°C	[min	approx. 30

All data are averages of several tests under laboratory conditions. In practice, climatic variations such as temperature, humidity, and porosity of substrate may affect these values.

Substrate 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 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.

Mixing

Mix by volume 5 parts of VANDEX SUPER with approx. 2 parts of tap water (25 kg + approx. 7.0 to 8.8 litres) in a clean container for at least 3 minutes to a lump-free, homogeneous consistency of thick oil paint. Use a mechanical mixer.

Application

VANDEX SUPER is applied with brush, suitable spray equipment or by dry sprinkling.

Brush application
Ensure that all cavities in the substrate are filled. Crosswise application: vertically bottom-up, then horizontally.

Spray application
VANDEX SUPER 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. 4 mm. The first layer of Vandex is applied in circular motion with the spray nozzle held at a 90% angle to the substrate. The final layer can be left as a spray finish or treated to a specified finish.

Apply subsequent coat whilst previous coat is still damp at the surface. The waiting time before applying the following coat depends on local climate conditions such as humidity, temperature, etc. The previous coat must not be damaged during application of the following coat. To maintain workability of the material do not add water, simply re-stir the mixture.

Dry sprinkle and power trowel application
The concrete is poured, vibrated and screeded as usual. When the concrete to be treated starts to reach initial set, the specified amount of VANDEX SUPER is drydistributed by hand using a sieve (mesh size of 1 mm) or suitable spreader on to the concrete surface. The powder is then trowelled into the substrate until coverage is uniform and the specific finish is achieved.

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

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Consumption Text

Concrete slab, positive or negative water pressure: 1.2 kg/m² by dry sprinkle, brush or spray in 1 coat
Concrete slab, moisture / no water pressure: 0.8 kg/m² by brush or spray in 1 coat
Concrete walls, positive or negative water pressure: 1.5 kg/m² by brush or spray in 2 coats
Construction joints, water pressure: 1.5 kg/m² by brush in 1 coat (horizontal and/or vertical)

Guarantee / Warranty

Tremco CPG UK Ltd products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG UK Ltd written instructions and (b) in any application recommended by Tremco CPG UK Ltd, but which is proved to be defective, will be replaced free of charge. No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct.
Tremco CPG UK Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

Health And Safety Precautions

Safety data sheet must be read and understood before use.

Technical Service

Tremco CPG UK Limited has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 01942 251400.

Filling of Water Retaining Structures

Filling can take place when the surface treatment has hardened sufficiently, usually not less than 14 days after application. However, if earlier filling is specifically required, filling may be considered after not less than 7 days, provided the surface is thoroughly checked for hardness. A careful cleaning and disinfection prior to the first operation is essential. Observe national laws and regulations.

Curing

Keep damp for at least 5 days and provide suitable protection against extreme weather conditions (e.g. sun, wind, frost) while setting. The freshly treated surface should be protected from rain for a minimum period of 24 h. In closed spaces and deep pits, suitable air circulation should be provided for 24 hours following the VANDEX SUPER treatment.

Backfilling

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

Plastering Coating

Surfaces treated with Vandex products which are to be coated or painted should be left to cure for at least 28 days. At the end of the curing period, prior to the application of coatings or paints, the surfaces should be saturated with water and neutralised with diluted hydrochloric acid (1:8 / approx. 3.5%). Observe precautionary measures! Following this, the area must be thoroughly rinsed with water. When a plaster or render finish is required on top of a Vandex treatment it is

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essential to apply a rough cast of sand and cement on the final Vandex coat while it is still tacky. On hardened Vandex surfaces apply an appropriate bonding agent before rendering. 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.

Certification

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