

Waterproofing Slurry

- **in-depth waterproofing and protection**
- **permanent active**
- **applied to pressure or non-pressure concrete face**
- **approved for potable water contact**
- **grey or white**

VANDEX SUPER and VANDEX SUPER WHITE are of a similar nature. Whereas VANDEX SUPER is based on grey Portland cement VANDEX SUPER WHITE uses white cement as binding agent. All technical information of VANDEX SUPER apply also for VANDEX SUPER WHITE except for colour, bulk density and setting time.

Product Description

VANDEX SUPER is a surface-applied material which waterproofs and protects concrete in-depth.

It consists of grey or white Portland cement, specially treated quartz sand and a compound of active chemicals. VANDEX SUPER is supplied in powder form in 25 kg bags and needs only to be mixed with water prior to application.

Areas of Application

VANDEX SUPER can be applied to all structurally sound concrete – new or old. It may be applied to either the pressure or non-pressure concrete face (i.e. with or against water pressure).

VANDEX SUPER may be used in conjunction with VANDEX PREMIX (see separate data sheet). Typical areas of application are:

- basement retaining walls
- concrete slabs (floor/roof/balcony, etc.)
- construction joints
- water retaining structures
- swimming-pools
- sewage treatment plants
- channels
- bridges, etc.

Properties

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 approved for use in contact with potable water, and is therefore suitable for the treatment of water storage tanks, reservoirs, water towers, etc.

VANDEX SUPER and VANDEX SUPER WHITE are not decorative materials.

Surface Preparation

All concrete to be treated with VANDEX SUPER must be clean and have an „open“ capillary system. Remove laitance, dirt, grease, etc. by means of high pressure water jetting, wet sandblasting or wire brushing. Faulty concrete in the form of cracks, honey-combing, etc. must be chased out, treated with VANDEX SUPER and filled flush with VANDEX UNI MORTAR 1. Surfaces must be carefully prewatered prior to the Vandex application. The concrete surface must be damp but not wet.

Mixing

VANDEX SUPER is mechanically mixed with clean water to a consistency of thick oil paint. Approximate mixing ratio is 0.8 parts of water to 2.0 parts of powder (by volume). Mix only as much material as can be used within 20 minutes and stir mixture frequently. If the mixture starts to set do not add more water, simply restir to restore workability.

Application

Slurry consistency. Apply VANDEX SUPER in one or two coats according to specification by masonry brush or appropriate power spray equipment. When two coats are specified apply the second coat whilst the first coat is still „green“.

Dry powder consistency (for horizontal surfaces only). The specified amount of VANDEX SUPER is distributed in powder form through a sieve and trowelled into the freshly placed concrete once this has reached initial set.

Post treatment. The treated areas should be kept damp for a period of five days and must be protected against direct sun, wind and frost, by covering with polythene sheeting, damp hessian or similar.

Note: Do not apply VANDEX SUPER at temperatures below + 5 °C.

VANDEX SUPER cannot be used as an additive to concrete or plasters.

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.

Water retaining structures, internal concrete wall surfaces. Two coats of VANDEX SUPER each at 0.75 kg/m². Brush or spray applied.

Concrete slabs. VANDEX SUPER at 1.2 kg/m² applied in one slurry coat to hardened concrete or dry sprinkled and trowel applied to fresh concrete when this has reached initial set.

Construction joints. VANDEX SUPER at 1.5 kg/m² applied in slurry or dry powder consistency immediately prior to placing the next lift/bay of concrete.

Blinding concrete. VANDEX SUPER at 1.2 kg/m² applied in slurry or dry powder consistency immediately prior to placing the overlying concrete slab.

Packaging

25 kg PE-lined paper bags

Storage

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

Technical Data

	VANDEX SUPER	VANDEX SUPER WHITE
Aggregate state	powder	powder
Colour	cement grey	white
Bulk density	approx. 1.25 kg/l	approx. 1.20 kg/l
Setting time	60 minutes	120–180 minutes

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.

Health and Safety

VANDEX SUPER / SUPER WHITE contains cement.

Irritating to eyes and skin. VANDEX SUPER (grey) 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.

Vandex

CONCRETE PROTECTION AND WATERPROOFING

HEADOFFICE AND INTERNATIONAL SALES:

VANDEX INTERNATIONAL LTD

P.O. Box, CH-4501 Solothurn/Switzerland

Phone: +41 (0)32 626 36 36, Fax +41 (0)32 626 36 37

E-mail: info@vandex.com www.vandex.com

PRODUCTION AND SALES GERMANY/AUSTRIA:

VANDEX ISOLIERMITTEL-GESELLSCHAFT m.b.H.

Postfach 1406, D-21487 Schwarzenbek/Germany

Phone: +49 (0)4151 89 15-0, Fax +49 (0)4151 89 15 50

E-mail: info@vandex.de www.vandex.de

