



Crystalline Waterproofing Coating

- integral waterproofing and protection
- permanently active
- applied to the positive or negative side
- potable water approved, certified to ANSI/NSF standard 61(gray)
- gray or white

PRODUCT DESCRIPTION

VANDEX SUPER and VANDEX SUPER WHITE are of a similar nature. VANDEX SUPER has a gray Portland Cement base, VANDEX SUPER WHITE has a white cement as a binding agent. Excluding color, bulk density and set times, all technical information for VANDEX SUPER applies to VANDEX SUPER WHITE.

VANDEX SUPER is a surface applied material which waterproofs and protects concrete utilizing an integral crystalline matrix.

It consists of gray or white Portland cement, specially treated quartz sand and proprietary active ingredients. VANDEX SUPER is supplied in powder form in 50 lbs(22,7kg) bags and needs only to be mixed with potable 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 positive or negative side, (i.e. with or against water pressure).

Typical areas of application are:

- foundation walls
- concrete slabs (floor/roof/balcony, etc.)
- construction joints
- tanks
- swimming pools
- water & wastewater facilities
- slurry walls
- bridges

PROPERTIES

When VANDEX SUPER is applied to a concrete surface, the active ingredients combine with the free lime and moisture present in the capillary tract to form insoluble migratory crystalline complexes. These crystals block the capillaries and minor shrinkage cracks in the concrete to prevent any further water ingress. The VANDEX SUPER will still allow the passage of water vapor through the structure. 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 and pipeline systems.

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 and contaminants by means of high pressure water blasting, wet sandblasting or approved mechanical means.

Irregularities in the concrete such as cracks, spall, honeycombing or other unsuitable conditions must be treated with VANDEX SUPER and leveled with the appropriate Vandex repair mortar. Surfaces must be prewatered prior to the Vandex application. The concrete surface must be damp but not wet.

MIXING

VANDEX SUPER is mechanically mixed with potable water to a consistency of thick paint. Approximate mixing ratio is 2 parts of water to 5 parts of powder (by volume).

Mix only as much material as can be used within 20 minutes and agitate mixture frequently. Do not retemper VANDEX SUPER.

APPLICATION

Slurry Application: Apply VANDEX SUPER in one or two coats according to specification by masonry brush or appropriate spray equipment. When two coats are specified apply the second coat while the first coat is still "green".

Dry Shake: 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 initial set has been reached.

Curing: 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 polyethylene sheeting, damp burlap or similar curing mechanism.

Note: Do not apply at temperatures below 40°F (+5°C) or to a frozen substrate. High temperatures may accelerate setting. Provide protection against extreme weather conditions while setting. Keep coatings moist during initial setting and curing. VANDEX SUPER cannot be used as an additive to concrete or plasters.

YIELD

Concrete surfaces to be backfilled. Two coats of VANDEX SUPER 1.4 lbs/yd² (0.75 kg/m²) each. Brush or spray applied.

Water retaining structures, internal concrete wall surfaces.

Two coats of VANDEX SUPER each at 1.4 lbs/yd² (0.75 kg/m²). Brush or spray applied.

Concrete slabs. VANDEX SUPER at 2.2 lbs/yd² (1.20 kg/m²) applied in one slurry coat to hardened concrete or dry sprinkled and trowel applied to fresh concrete at initial set.

Construction joints. VANDEX SUPER at 2.8 lbs/yd² (1.5 kg/m²) applied in slurry or dry powder consistency immediately prior to placing the next pour of concrete.

Split Slab Construction. VANDEX SUPER at 2.2 lbs/yd² (1.2 kg/m²) applied in slurry or dry powder consistency immediately prior to placing the overlying concrete slab.

PACKAGING

50 lbs (22.7 kg) lined paper bags.

STORAGE

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

TECHNICAL DATA

	VANDEX SUPER	VANDEX SUPER WHITE
Aggregate state	powder	powder
Color	cement gray	white
Bulk density	approx. 78 lbs/ft ³ (1.25 kg/l)	approx. 75 lbs/ft ³ (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 which is irritating to eyes and skin and may cause sensitization by skin contact. Avoid contact with skin and eyes. In case of contact with the eyes rinse immediately with plenty of water and seek medical attention. VANDEX SUPER/SUPER WHITE contains silica sand. Do not inhale dust. Provide good ventilation of working area. In dusty environments or poor ventilation use approved respirator. Wear suitable gloves and safety glasses. Keep out of reach of children. For further information please refer to Material Safety Data Sheet of VANDEX SUPER/SUPER WHITE.

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. Contact Vandex USA for Job Specific Extended Warranties.

Vandex®

CONCRETE PROTECTION AND WATERPROOFING

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