

VANDEX SPECIALIZED PRODUCTS

WATERPROOFING CONCRETE PROTECTION CONCRETE REPAIR

Vandex



Detail concrete Repair



Apply Vandex CR-1000 with
VANDEX CR-1000
REINFORCEMENT

Apply Vandex CR-1000
REPAIR MORTAR



Apply Vandex CR-1000
with
VANDEX CR-1000
REINFORCEMENT

Apply Vandex CR-1000
with
VANDEX CR-1000
REINFORCEMENT



How does Vandex work?

Vandex cementitious waterproofing materials consist of ordinary Portland cement, carefully graded quartzite sands, and a blend of activating chemicals.

Vandex has two types of waterproofing products:

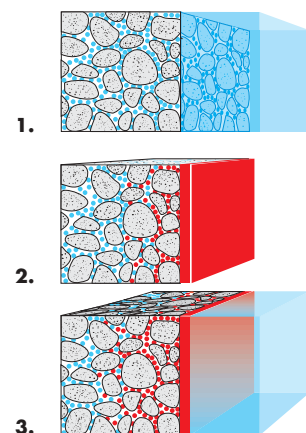
1. Capillary active components which work by penetration of the product into the concrete to provide in-depth waterproofing as shown below.

2. Slurries and mortars which form a waterproofing barrier.

The waterproofing effect of the capillary active Vandex products is produced by the Vandex coating which forms a waterproof layer and by activation of the chemicals which penetrate the concrete capillaries by the osmotic pressure of water. Here the Vandex chemicals react with the free lime in the concrete forming chemical complexes which block the capillaries and voids. Permeation of liquid water is no longer possible whereas water vapour is still allowed to pass.

In addition, Vandex waterproofing layers protect the concrete to a certain extent from exterior influences, such as carbonates, chlorides, sulphates and nitrates. Vandex becomes an integral part of the concrete structure, forming with the concrete a strong and durable homogeneous body.

Vandex in-depth Waterproofing.



1. Concrete wall exposed to water. The water has forced its way into the capillaries. Long-term effect: leaky, damaged concrete.

2. After Vandex treatment: The reaction between the free lime, moisture and the Vandex chemicals has set in. Vandex penetrates the concrete forming chemical complexes which substantially constrict the capillaries.

3. The concrete is now watertight but still allows water vapour to pass. The Vandex chemical complexes remain in the concrete, ready to reactivate upon water impact.

Where is Vandex used?

Vandex products are recommended for solving problems such as:

- Concrete waterproofing
- Concrete protection
- Concrete repair
- Refurbishment of old buildings
- Grouting
- Waterproofing of joints

Areas of Application

New and existing buildings:

Waterproofing of foundation walls, slabs below ground level, elevator pits, parking garages, landscaped roof slabs, swimming pools, industrial water structures, diaphragm walls as well as construction joints, all against hydrostatic pressure.

Drinking water structures, water filtration plants:

Waterproofing and coating.

Sewage treatment plants and sewers:

Waterproofing and protection against sewage and industrial waste water.

Hydroelectric plants, dams and hydraulic engineering structures:

Waterproofing and protecting marine structures.

Concrete protection.

Refurbishment of old buildings.

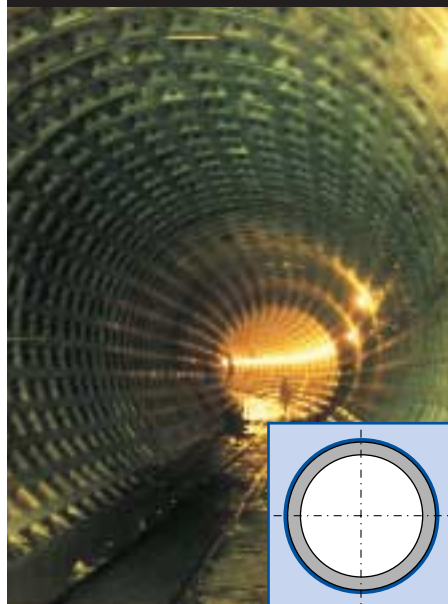
Structural and industrial engineering



Industrial buildings



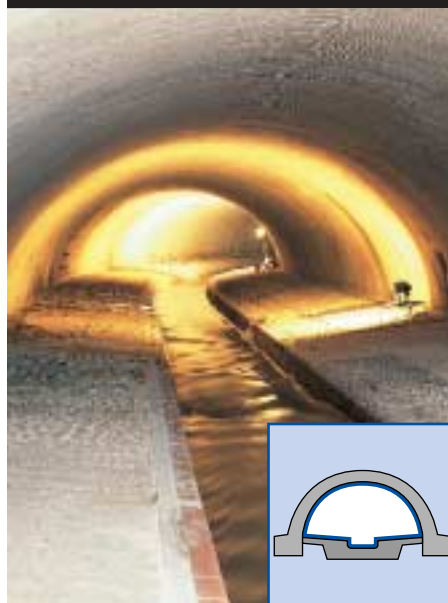
Tunnel



Drinking water reservoirs



Sewer



Sewage treatment plant



Vandex professionally used

Vandex technical documentation offers standard specifications for various typical applications:

- Below ground concrete walls and slabs, external or internal waterproofing
- Below ground multi-storied car parks
- Elevator pits
- Closed water retaining structures
- Swimming pools
- Sewage treatment plants
- Planters
- Construction joints
- Stopping of water leaks

Vandex Application

Cementitious Vandex materials can efficiently and safely be applied in various ways:



spray application



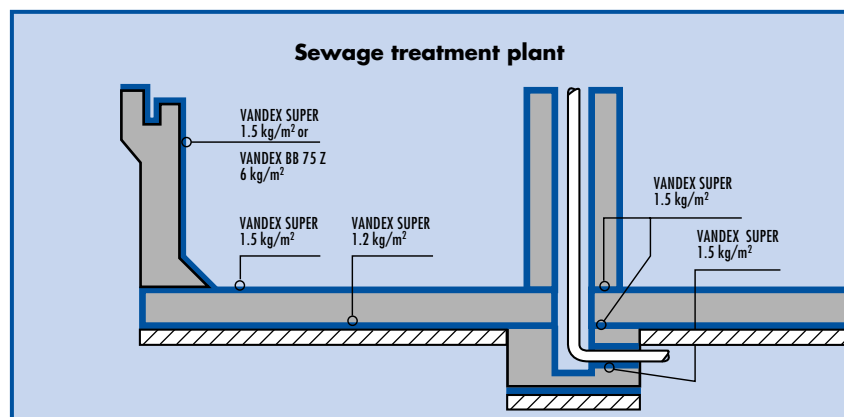
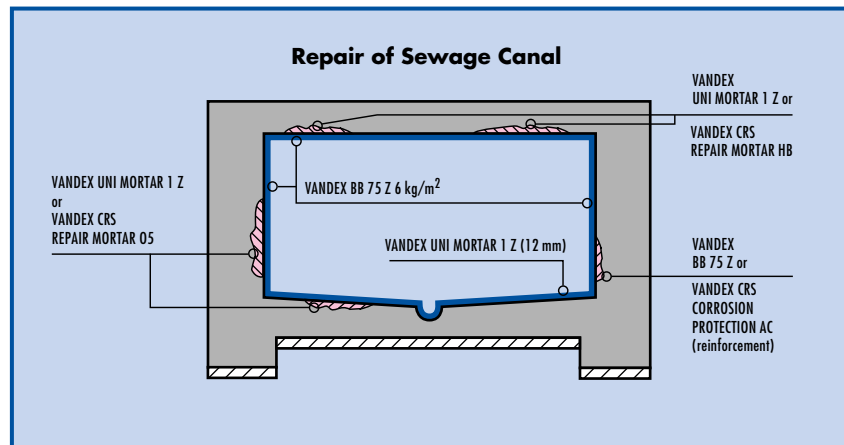
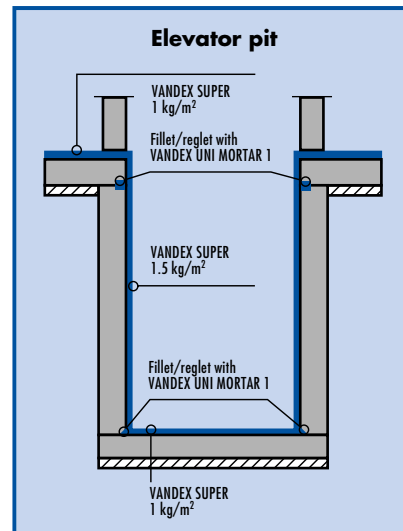
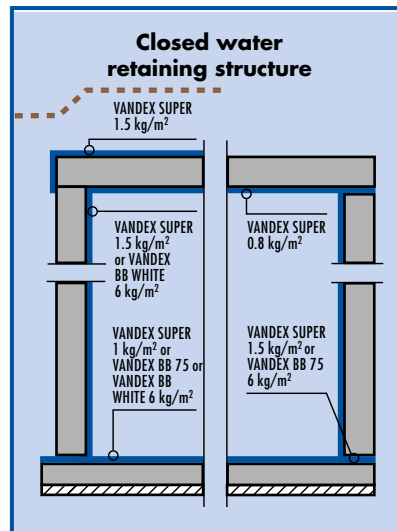
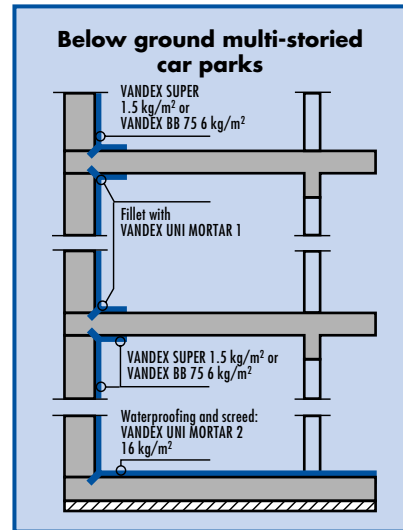
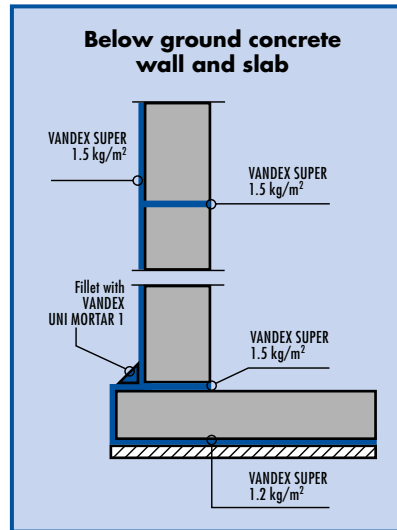
trowel application



brush application



power trowelling



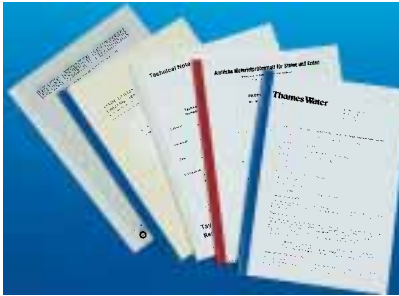
Vandex Products are tested products

The cementitious Vandex products are regularly tested by approved and independent testing laboratories in various countries all over the world.

These tests serve as neutral proof of the efficiency and special properties of the various products.

The group of concrete repair products was specially tested for its physical properties and compatibility with concrete.

The relevant products are approved for use in direct contact with drinking water.



Vandex Quality Assurance System

Vandex International Ltd., Switzerland, holds an ISO 9001 Certification which verifies that the quality assurance system meets the requirements of international quality management standards.

The Vandex quality assurance system offers the customer major advantages: ■ consistently high product quality ■ innovative products responding to actual customer needs ■ a service package which safeguards engineering consultation and proper application of Vandex products.



Vandex Services. Our know-how - your success!



Technical consulting

Vandex-trained engineers provide professional consulting services for planners and applicators.



Assistance in specification writing

Vandex technical services include assistance in specification writing for standard or individual problem solutions.



Site supervision

If required, Vandex supervisors demonstrate or supervise applications to support Vandex local distributors or end users in the proper application of Vandex products right on the job.



Training courses

Vandex regularly offers training courses given at Vandex Headquarters, at the Vandex demonstration center or customer premises.



Lab services

Our chemists and laboratories are available also to our customers for laboratory analyses and opinions.



Vandex references

Vandex maintains a job reference service providing key data for customers on completed Vandex projects throughout the world.

Vandex specialized products and areas of application



Product name/ type of product				packaging	active waterproofing	passive waterproofing	structural/industrial engineering	traffic installations	diaphragm walls	slabs	parking garages	tunnel waterproofing	swimming pools	drinking water retaining structures	sewage treatment plants	sewers/shafts	marine structures	concrete repair	concrete protection	water leaks	
VANDEX	refer also to Technical Data Sheets	consumption																			
SUPER SUPER WHITE	penetrating waterproofing slurry for waterproofing and protection of concrete	1 - 1.5 kg/m ²		25 kg	●	●	●	●	●	●	●	●	●	●	●	●	●				
BB 75 / BB 75 Z	waterproofing slurry (grey) for waterproofing and protection of concrete	3 - 6 kg/m ²		25 kg	●	●	●	●	●	●	●	●	●	●	●	●	●				
BB 75 E	elasticized waterproofing slurry with crack bridging capacities	4 - 5 kg/m ²		35 kg (2 comp.)	●	●	●	●	●		●	●	●	●	●	●	●				
BB WHITE	cementitious waterproofing slurry against water and moisture, white	6 kg/m ²		25 kg	●	●	●					●	●								
CEMELAST	elasticized waterproofing slurry for use in drinking water reservoirs, 2 components	4 - 6 kg/m ² 2 - 3 mm per layer		34 kg (2 comp.)	●	●	●	●	●		●	●	●	●	●	●	●				
UNI MORTAR 1 / UNI MORTAR 1 Z	waterproofing and repairing mortar resistant to abrasion and deicing salt	12 - 24 kg/m ² 6 - 12 mm per layer		25 kg	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
UNI MORTAR 2	rapid setting waterproofing and repairing mortar resistant to abrasion and deicing salt	12 - 24 kg/m ² 6 - 12 mm per layer		25 kg	●	●	●	●	●	●	●	●	●								
PLUG	rapid setting mortar for plugging water leaks	approx. 200 g/100 cm ³		15 kg																	●
CRS REPAIR MORTAR 05	mortar for the repair of concrete, 1 component	approx. 19.5 kg/m ² / 10 mm dry weight		25 kg														●			
CRS REPAIR MORTAR HB	cementitious polymer-modified highbuild repair mortar with lightweight aggregates to be mixed with water	approx. 14 kg/m ² / 10 mm dry weight		20 kg														●			
CRS OS 95	elasticized slurry with crack bridging capacities, 2 components	approx. 1.8 kg/m ² / 1 mm wet weight		32.5 kg (2 comp.)																	●
EXPASEAL 2520/2010	expanding waterstop for construction joints and movement joints (up to 5 mm movement) pipe encasements (*)	1.0 m VANDEX EXPASEAL per meter joints		Box 2520: 30 m 2010: 60 m	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
CONSTRUCTION JOINT TAPE	waterproofing tape for construction joints and cracks	1.0 m VANDEX CONSTRUCTION JOINT TAPE → 1.0 kg/m BB 75 E		30 m	●	●*	●	●	●	●	●	●	●	●	●	●	●	●			

More Vandex products are offered, please ask for Technical Data Sheets.

* with supporting measurement

(*) can be glued with VANDEX EXPASEAL ADHESIVE



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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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