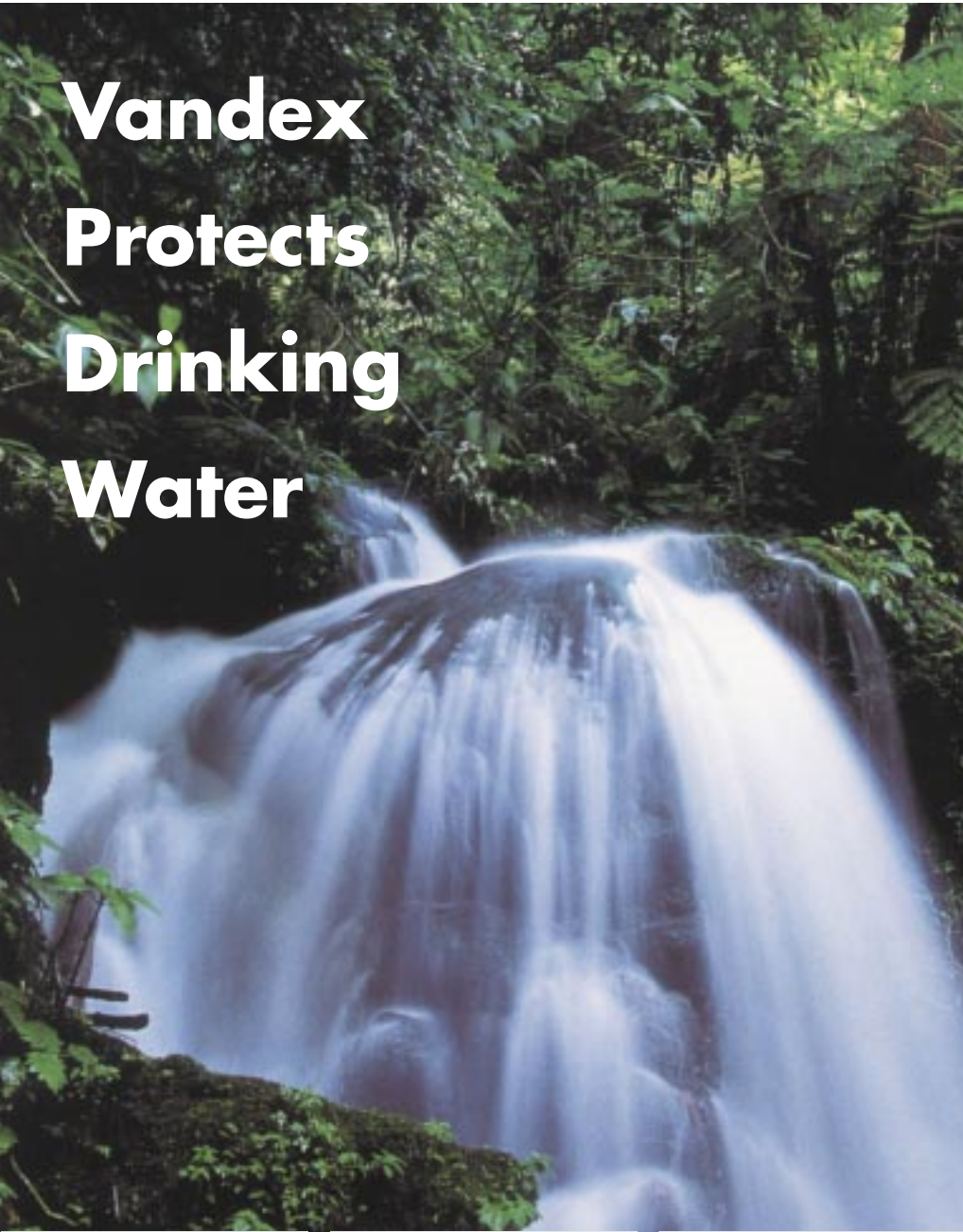


**Vandex  
Protects  
Drinking  
Water**



**Vandex<sup>®</sup>**

*Water is the basis of all life for humans, plants and animals. It is essential for the survival of Man, and must therefore be protected from aggressive elements during treatment and storage.*



## **Drinking water, our most precious resource**



### ***Vandex coatings protect drinking water***

*All materials that come into direct contact with drinking water from source to consumer must meet high standards.*

*As an internal coating of treatment and drinking water storage tanks, cement-based systems have a long track record from the hygienic, ecological and economic points of view. For many years, Vandex has been acknowledged as the leading supplier of innovative mineral products in the field of waterproofing and coating of drinking water tanks.*



# **Dr i n k**



### Concrete – the most important construction material in the drinking water industry

Concrete is the most commonly used construction material for drinking water tanks. Concrete is also without doubt the right material; nevertheless, the surfaces in contact with the drinking water must also meet the high specifications associated with drinking water. In this area, mineral and polymer-modified, cement-based coatings have proven themselves to be both economical and durable.

### High standards for coatings of drinking water tanks

The coating of drinking water tanks must meet high hygienic standards, while at the same time protecting the structure of the tank. Additional requirements also have to be met, such as:

- ◆ waterproofing properties
- ◆ sealing of blow holes
- ◆ high resistance to leaching
- ◆ protection from infection
- ◆ resistance to attack from condensate
- ◆ smooth, easily-cleaned surface

### Vandex expertise in the coating of drinking water tanks

In the last 50 years, in close co-operation with scientific institutes, Vandex has acquired a considerable amount of expertise in applying mineral based coatings in water tanks, and is today one of the leading companies in this sensitive and specialised field. Vandex offers a comprehensive range of mineral and polymer-modified products as well as the relevant consultation service for designers and applicators.

### Vandex's well known expertise guarantees good results.



### Products for new construction with relatively even concrete surfaces

Function	Product	Layer thickness (mm) or consumption
waterproof, drinking water-compatible coating	VANDEX capillary active or membrane products	0.5 – 0.75 mm (1.0 – 1.5 kg/m <sup>2</sup> ) 3 mm (6 kg/m <sup>2</sup> )
possible surface consolidation	VANDEX MINERALIT	250 ml/m <sup>2</sup>

### Products for drinking water tanks with relatively uneven concrete structures requiring remedial work

Function	Product	Layer thickness (mm) or consumption
reinforcement protection	CORROSION PROTECTION M	1 – 2 mm
local repair	VANDEX MORTAR	locally up to 40 mm
area reprofiling, levelling (insufficient reinforcement covering)	VANDEX MORTAR	5 – 12 mm (1.0 – 1.5 kg/m <sup>2</sup> )
waterproof, drinking water-compatible covering	VANDEX capillary active or membrane products	0.5 – 0.75 mm (1.0 – 1.5 kg/m <sup>2</sup> ) 3 mm (6 kg/m <sup>2</sup> )
poss. surface consolidation	VANDEX MINERALIT	250 ml/m <sup>2</sup>



# CEDLINE, for extreme micro- biological situations

The VANDEX CEDLINE products are the latest development in the Vandex product range for drinking water. The quality of raw materials, the product composition and the application technology of VANDEX CEDLINE coatings ensure features such as low pore ratio and dense surface structure which make the applications resistant to virtually any microbiological attack.

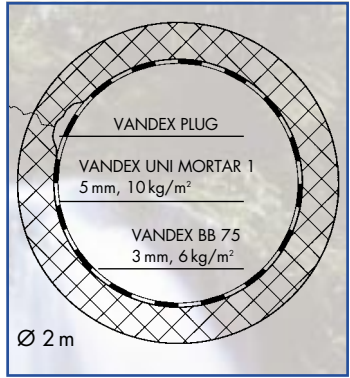
The VANDEX CEDLINE products have been subjected to laboratory and field tests over several years conducted under the supervision of Munich Technical University and have performed successfully in microbiological environments known to attack conventional cementitious coatings.



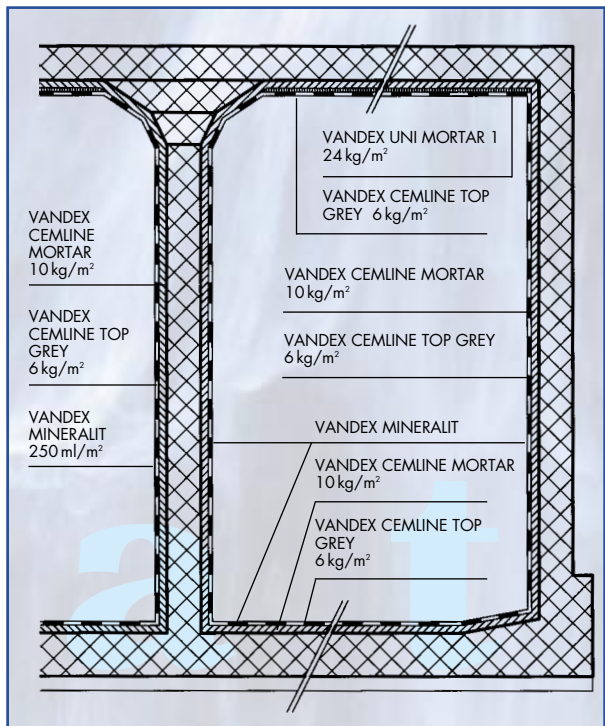
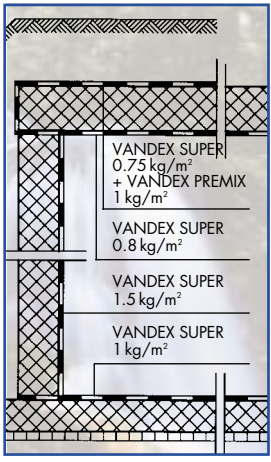
**VANDEX BB WHITE**  
Spray application

Waterproofing and coating of drinking water storage tank

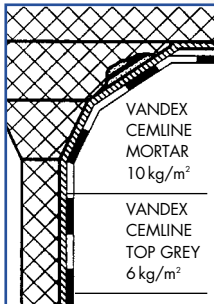
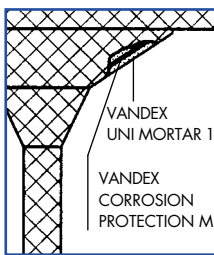
instead of VANDEX SUPER, VANDEX BB WHITE or VANDEX BB 75 each at 6 kg/m<sup>2</sup> resp. 4 kg/m<sup>2</sup> (roof) could be used



Repair of a drinking water supply pipeline



Repair of a drinking water storage tank



VANDEX CEDLINE MORTAR and VANDEX CEDLINE TOP GREY. Application mechanically and by hand.

# Vandex services

## ***Vandex Quality Assurance System***

*Vandex International Ltd, Switzerland and Vandex Isoliermittel-Gesellschaft mbH Germany, hold 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 ensures engineering consultation and the proper application of Vandex products.*



### ***Lab services***

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



### ***Training courses***

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



### ***Technical consulting***

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



# Drinking Water



# Vandex products for drinking water storage tanks

VANDEX	DESCRIPTION	CONSUMPTION	PACKAGING
<b>CORROSION PROTECTION M</b>	<i>purely mineral, also suitable for drinking water tanks</i>	2 – 4kg/m <sup>2</sup>	5 kg
<b>UNI MORTAR 1</b>	<i>waterproofing and repairing mortar</i>	12 – 24kg/m <sup>2</sup>	25 kg
<b>SUPER/SUPER WHITE</b>	<i>penetrating waterproofing slurry grey or white</i>	1.0 – 1.5kg/m <sup>2</sup>	25 kg
<b>BB 75</b>	<i>cementitious waterproofing slurry grey</i>	4 – 6kg/m <sup>2</sup>	25 kg
<b>BB WHITE</b>	<i>cementitious waterproofing slurry white</i>	6kg/m <sup>2</sup>	25 kg
<b>CEMLINE MORTAR</b>	<i>repair mortar and inner coating for drinking water tanks</i>	12 – 24kg/m <sup>2</sup>	25 kg
<b>CEMLINE TOP GREY</b>	<i>final protective slurry for drinking water tanks grey</i>	6 – 8kg/m <sup>2</sup>	25 kg
<b>CEMELAST</b>	<i>elasticized inner coating for drinking water tanks</i>	4 – 6kg/m <sup>2</sup>	25 kg/9 kg
<b>MINERALIT</b>	<i>substrate and surface hardener</i>	250ml/m <sup>2</sup>	30 l
<b>CONSTRUCTION JOINT TAPE</b>	<i>Waterproofing Tape for construction joints and cracks</i>	1 m per meter joints	30 m

## Vandex – solutions for special requirements

The Vandex product range offers adaptable problem solutions for different requirements for the construction and repair of drinking water tanks.

## Vandex expertise for users, designers and applicators

Vandex Technical Service is at the disposal of users, designers and applicators for the planning and carrying out of coating, waterproofing and repairing of drinking water tanks, at any time.

Using project related information such as water analysis, state of the existing structure, and damage assessment surveys, Vandex Engineers will work out the best solutions to specific problems.



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