

Vandex, for waterproofing  
in construction.



**Vandex®**  
WATERPROOFING SINCE 1946

Providing structural protection for more than



# 60 years – dealing with ground water, drinking water and waste water.

Water  
is our most  
precious resource.

It is essential for life,  
but can also have destruc-  
tive effects. We at Vandex have  
made it our mission to provide protec-  
tion for structures threatened by water  
everywhere in the world. This is how the company  
has established itself over the years as a worldwide  
market leader in the field of concrete waterproofing and  
protection.

The company was founded in 1946 – under the name VANDEX – in Denmark by the chemist Lauritz Jensen, who had already patented a method for waterproofing concrete in 1943. In the 1950s and 1960s, he made a breakthrough in Europe with this very product.

In 1979, Vandex company headquarters were transferred to Switzerland. Shortly thereafter the main production facility was constructed in Germany, which today continues to supply Vandex products worldwide. In the 1990s, new markets were opened in Eastern Europe, Asia and the Middle East.

Since 2006 Vandex has been a member of the RPM Group and is represented in more than 60 countries, waterproofing concrete structures worldwide.



The first Vandex logo

**Group structure:** Swiss Vandex Holding encompasses the companies Vandex International, Vandex Germany and Vandex Switzerland. Vandex International serves markets around the world from Switzerland.



**Vandex today:** A modern company with an extensive portfolio of waterproofing products.



**Vandex International:** The main activities of Vandex International are the management of the Vandex Group, research and development, the whole range of marketing, sales and providing an international technical service. The markets outside of the German-speaking world are managed by partner firms or exclusive representatives.

We constantly develop



# new ideas – for practical solutions.

When it comes to stability and durability, concrete is an excellent building material. However, this depends on how well you protect it. Hopefully you're using Vandex, with its ingenious products for practical solutions.

Vandex products stop water from penetrating concrete. For drinking water applications, Vandex coatings also exceed the required high hygienic standards. As one of the market leaders with exceptional technical skills and knowledge, a member of various professional panels and as a reliable partner, Vandex has for decades had a sterling international reputation.

Vandex has had ISO 9001 certification in Switzerland and Germany since 1994. From 2004 Vandex has also acquired ISO 14001 environmental management system certification. The ISO 9001 quality management system guarantees high and consistent product quality through strict quality control. It also encompasses the comprehensive services offered by Vandex, including consulting during planning and bidding, manufacturer and customer seminars, product and application information, and laboratory services. With these tools the optimal waterproofing solution can always be found and implemented for any situation.

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Vandex



**Research and development:** Vandex chemists carry out research in collaboration with renowned universities and institutes in order to make innovative product ideas a reality. Vandex engineers and technicians realise the practical solutions with well-established contracting companies.



**Production:** Vandex products are manufactured in a modern factory in Germany in conformity with quality standards and are constantly tested using ISO 9001 scientific methodology. To provide independent evidence of product performance, standard tests are carried out on materials and structures at recognised testing institutes both in Germany and abroad.



**Sales:** Vandex keeps most products in stock, ready for immediate despatch to customers.  
**Customer relations:** Vandex places special emphasis on expertly answering questions about products and systems.

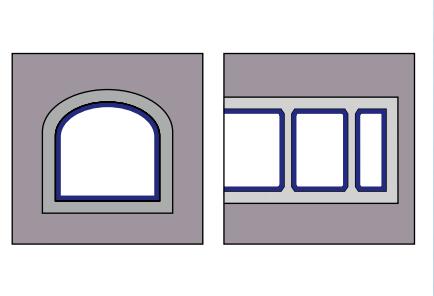


# Drinking water is essential for life – we keep it clean.

So that drinking water suppliers can provide their customers with clean water, all materials it comes into direct contact with, from source to consumer, must meet extremely high standards. Vandex provides waterproofing protection for drinking water structures that meet these standards, ensuring every last drop of water is clean and safe.

Vandex cementitious products for drinking water retaining structures conform to high hygienic standards and protect the structural material. The Vandex range for drinking water applications is designed to provide ease of application, exceptional resistance to leaching, protection from contamination and easy-to-clean surfaces. Moreover, the aesthetics are pleasing.

Vandex offers a well-rounded portfolio of coatings for drinking water retaining structures. This includes thin layer rigid and elasticised waterproofing slurries high build mortars and penetrating crystalline-active products. The Vandex consulting service is always available for operators, engineers and managers for planning and carrying out waterproofing to drinking water retaining structures. Whether it's for new structures or renovation projects, Vandex is a specialist for clean water.



**Coating system:** Along with the penetrating crystalline-active products, Vandex cement-based thin layer and high build systems have proven themselves as excellent interior linings for processing tanks and drinking water containers – in terms of hygienic, ecological and economical considerations.



**Range of products:** Vandex's range of products for newbuild and refurbishment of drinking water retaining structures allows for the most adaptable systems – to cater for the most diverse requirements.  
**Services:** Vandex develops optimal solutions for every situation; specific to the situation's water analysis test results, structural engineering requirements and for renovation, the condition of the existing structure.



**Reference object:** Refurbishment of the drinking water reservoir in Pieterlen, Switzerland.  
Vandex products used: VANDEX CEMLINE MORTAR, VANDEX CEMLINE TOP GREY, VANDEX MINERALIT

# Waste water processing fac



# lities require safety and protection – we provide them.

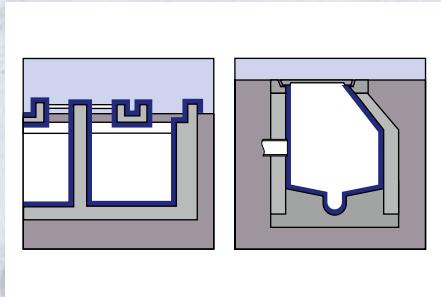
Anyone who builds, maintains or operates plants for collecting, transporting or processing used water and waste water needs a partner capable of dealing with all kinds of challenges in order to protect the underlying concrete structure.

Vandex offers internal lining products and re-profiling mortars for clarifiers, sludge tanks and waste water channels. These minimize the wear on the processing plant even when dealing with highly contaminated waste water. This helps the operator keep a perfect record financially as well.

Vandex systems are capable of catering to a wide variety of requirements, for example protection from acidic or basic waste water. Where there is damage and deterioration from highly aggressive waste water, Vandex polymer cement technology allows for eco-friendly and economical solutions.

To hold up against multiple contaminants, individual

Vandex products can be used in conjunction with each other to create a complete protection system. The collection and transport of waste water is treated – with care.



**Suitability:** Vandex system products are delivered ready to use, facilitate professional application techniques and are also best suited for spray applications.



**Procedures:** After a thorough condition analysis based on the diagnosis of all damages, repairs can proceed using Vandex system products.  
**Price-Benefit Ratio:** Whether for new construction or refurbishment, Vandex assists the planning engineer in finding the optimal price-benefit ratio for protecting concrete structures.



**Reference object:** Deer Island Sewage Treatment Plant of Boston MA, United States of America.  
Vandex products used: VANDEX SUPER, VANDEX UNI MORTAR 1 Z

Ground water

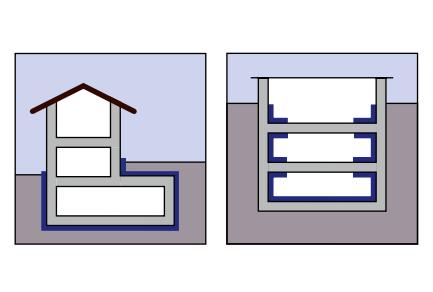


# needs to stay out – we keep structures watertight from the ground up.

Whether dealing with walls or concrete slabs, diaphragm walls or elevator shafts, underground garages or swimming pools: Vandex products can always provide the ideal waterproofing system for preventing any water penetration. Even structural joints and cracks can be sealed elastically and permanently. This assures that you'll be able to use your buildings without taking a bath – even if you've built near water.

The cement-based waterproofing products from Vandex are made up from special cements, quartz sands with high grading, inert fillers, varied activating compounds and polymer additives. Together they prevent water from seeping through while maintaining the desired water vapour permeability.

Vandex products become an indispensable part of the concrete surface: together with the concrete they form a lasting structure which will remain watertight and also help keep the builders' heads above water, financially.



**Modes of action:** Vandex coatings combine with the concrete surface to form a single protective layer, which is further strengthened by the Vandex capillary active ingredients.

**Performance tests:**  
Vandex products are regularly tested by recognised testing institutes in various countries – providing independently verified documentation of individual product performance.



**Quality assurance:** The definitive advantages of the Vandex quality system are consistent product quality, innovative technology, consultation with trained experts and continual communication with our customers.



**Reference object:** Architect Santiago Calatrava's Palacio de las Artes (City of arts and science) in Valencia, Spain.  
**Vandex products used:** VANDEX SUPER, VANDEX PREMIX, VANDEX BB 75 Z, VANDEX UNI MORTAR 1, VANDEX PLUG

Older structures need to be carefully

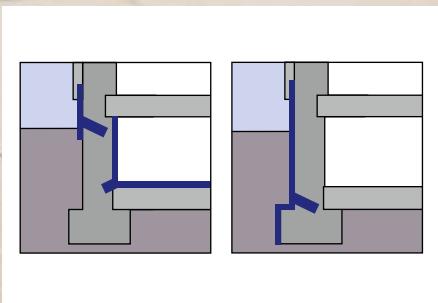


# refurbished – we preserve valuable structural materials.

The most frequent cause of deterioration in concrete structures is moisture in combination with aggressive salts. Older structures often have efflorescence and have suffered water damage. Even reinforced concrete of first-class quality can be attacked by corrosion. But if you've suffered damage already, you don't need to give up. Vandex makes permanent, long-lasting repairs possible.

Vandex offers product systems and expert technical knowledge for the refurbishment of concrete structures. From examinations of building conditions using specialised equipment, to corrosion protection products for reinforcing steel, re-profiling mortars, surface skimming compounds, and weather-proof and crack-filling protective coatings for old and new structures.

The Vandex product ranges provides practically all types of damp-proofing and waterproofing suitable for the refurbishment of older structures. This includes preventing water penetration into masonry, treating surface salt contamination, making walls watertight and achieving a balanced indoor environment. With Vandex you can keep your house dry.



**Refurbishment concept:** Vandex offers a clear concept for repair – from initial structural examination to a diagnosis of overall damage, and refurbishment in a modular system through to quality assurance.

**Competition:** Vandex has been working in the refurbishment of older structures for decades. All products comply with the newest technical standards and building codes and the regulations governing environmental protection.



**Refurbishment of older structures:** Put an end to moisture that rises through capillary action from rising damp, moisture absorption from hygroscopy, and condensation from atmospheric moisture – Vandex saves older structures.

**Application techniques:** Vandex materials can be applied efficiently and safely in a number of ways – with a finishing mortar sprayer, trowel, brush and steel blade.



**Reference object:** Hong Kong Convention and Exhibition Centre, Hong Kong, People's Republic of China.

Vandex products used: VANDEX SUPER

The success story continues –



# we set new standards in research and development.

The demands that planners, architects and builders make on buildings and construction materials are constantly increasing. Vandex is actively helping to guide this development and set standards – with products that benefit from the newest state-of-the-art advancements and by providing comprehensive services.

Personally and professionally motivated employees guarantee the necessary creativity and competence for producing practical innovations, as has been the tradition in our company for more than 60 years. Our strict quality assurance is given priority in all areas: certification according to the relevant European standards for quality, hygiene and safety is a given at Vandex.

The company faces the challenges of the future and works actively to provide clean drinking water in the best food-grade quality, to protect structures used in waste water treatment, provide reliable waterproofing for structures and refurbish structures of concrete and older structures from the ground up.  
Vandex for waterproofing in construction.



**Protection of potable water:** Environmental contaminants make supplying hygienically unobjectionable potable water an imminently important task, and Vandex is decisively involved in the solution.



**Waste water treatment:** Waste water does not belong in the environment, but in a perfectly sealed waste water treatment plant – for that reason, Vandex offers products for lining intake pipes and processing plants.



**Below ground waterproofing:** You can always rely on Vandex-sealing technology – Vandex products form a waterproof skin on the surface of the structure and provide a homogenous unit with the concrete substructure.



**Concrete repair:** Detoriated concrete needs to be repaired – optimally with products from Vandex.



**Refurbishing older structures:** Protective coatings that have proven themselves in the repair of older structures are consistently the subject of ongoing development at Vandex.



WATERPROOFING  
CONCRETE PROTECTION  
CONCRETE REPAIR

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