



## PROPERTY REFURBISHMENT WITH VANDEX PRODUCTS.

- COMPATIBLE WITH THE ENVIRONMENT
- SAFE ■ PROVEN OVER MANY YEARS

  
**Vandex**

## Valuable Properties Need Not Decay!

Old buildings often show efflorescence, damp and plaster damage. Moisture, combined with harmful salts, is one of the main causes of structural dilapidation. Without appropriate countermeasures, buildings decay quickly. So Vandex, keeping abreast with modern technology, have further improved their waterproofing and protection materials, which have been proven over decades, in waterproofing and property refurbishment.

Decay can be stopped by the specific use of Vandex products, and the relevant knowledge.

## Refurbishment of old Buildings is worth it!

Damage in old properties means a considerable loss in value. Damp is unpleasant, unhealthy, and destructive. Damp thermal insulation can be ineffective, allowing condensation to form on structural components such as wall ties. Organic components rot and disintegrate. The presence of harmful salts not only causes unsightly efflorescence, but disrupts and destroys masonry, plaster, and decorations.

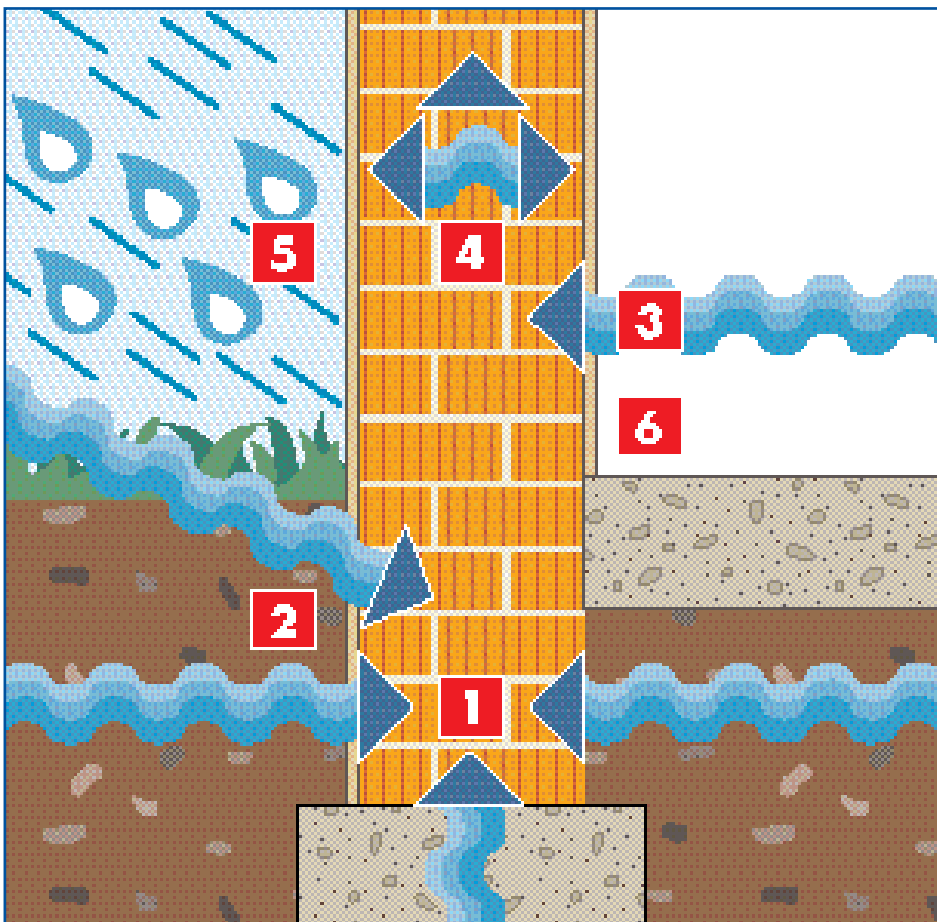
Investing in refurbishment pays dividends. Property values increase dramatically, and basement space becomes available again for long-term usage. Restoration to a healthy, pleasant room environment returns previously moisture-damaged building areas to a habitable standard. With thermal insulation effective again, considerable savings in heating costs can be realized.

## Vandex Property Refurbishment System Including Modern System Products

Our competence comes from 30 years experience in property refurbishment. Hence, the Vandex product line conforms both to the latest technical provisions (e.g., WTA\* guidelines) and the presently applicable environmental protection regulations (e.g., mineral products and controlled disposal of containers).

Quality assurance starts with the checking of incoming raw materials and continues through applicator company training.

\* WTA = International Association for the Science and Technology in Maintenance of Structures and Protection of Monuments.



### System Approach to Successful Property Refurbishment:

Structural examination

Damage assessment using Vandex checklists

Refurbishment concept based on modular system

Structural refurbishment with quality assurance measures

### Moisture Sources Jeopardizing Property:

- 1 Rising Damp
- 2 Lateral penetration
- 3 Hygroscopic moisture
- 4 Condensation
- 5 Exposure to wind-driven rain and splashing water
- 6 Plumbing leaks

# VANDEX 4-Module Refurbishment System

The combination of individual modules allows the refurbishment of properties in almost any circumstances. The four basic modules include the following units:

1. VANDEX Damp-Proof Course (DPC)
2. VANDEX Salt Treatment
3. VANDEX Waterproofing
4. VANDEX Refurbishment Plaster System

The picture on the right shows their relation to structural elements.

## VANDEX Horizontal DPC Mechanism

Horizontal dpc's are installed in existing damp buildings to block or reduce the moisture rising through the capillaries.

This is accomplished by stopping the capillary action, as shown in Fig. a-e.

The Vandex products:

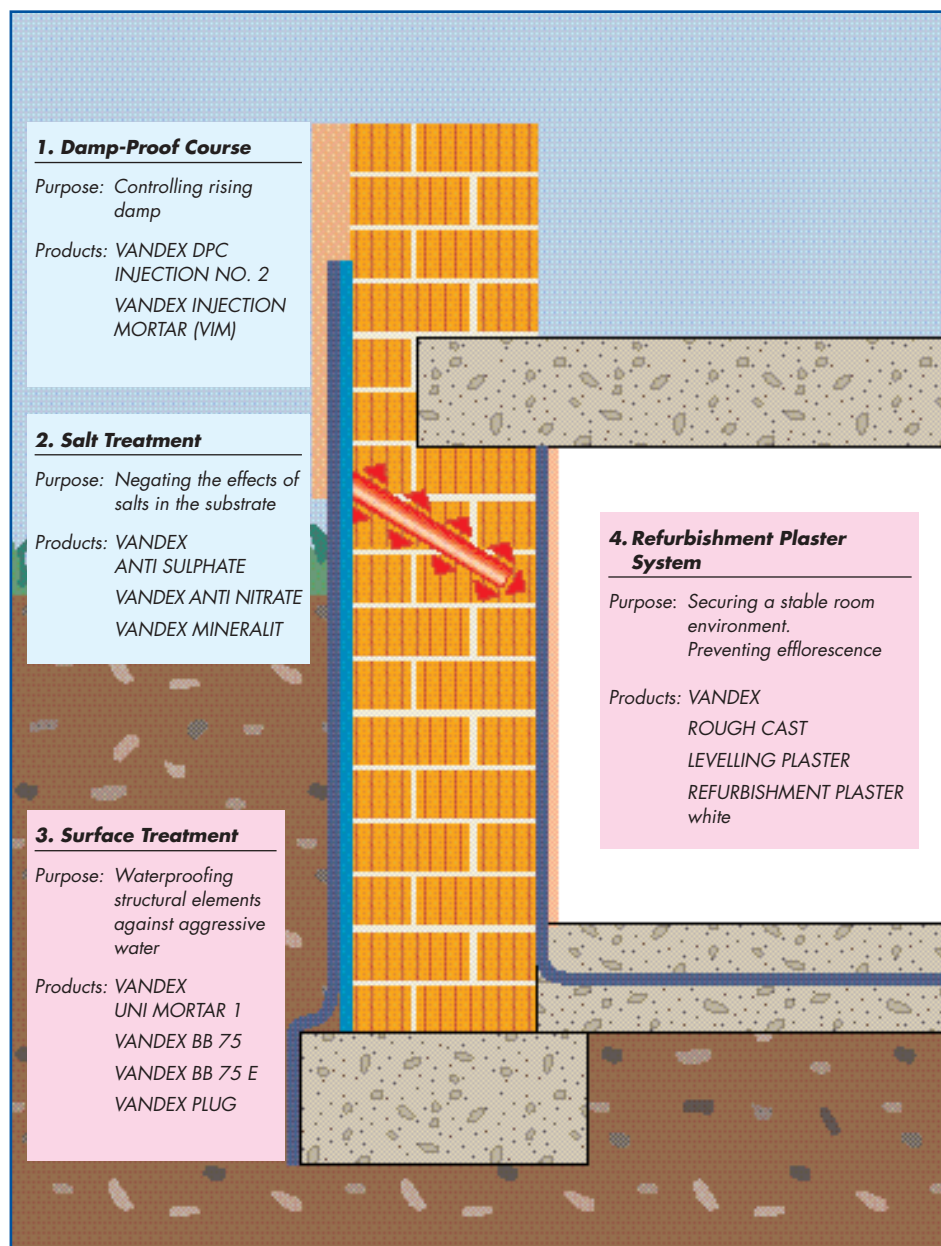
- VANDEX DPC INJECTION NO. 2
- VANDEX INJECTION MORTAR (VIM)

work in different ways, depending on the specific circumstances, to stop rising damp.



## Vandex 4-Module Property Refurbishment System.

Using the Vandex 4-module system, virtually any damage can be expertly and comprehensively remedied.



## Damp-Proof Course: Mechanism



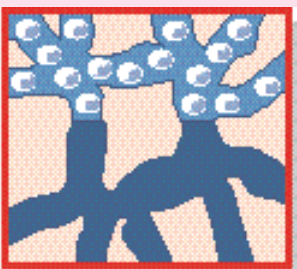
a) Untreated open capillary system → water moving unimpeded.



b) Plugging a plane in the capillary system → water movement stopped.



c) Narrowing of capillaries → water movement reduced.



d) Rendering capillaries hydrophobic → water movement minimized.

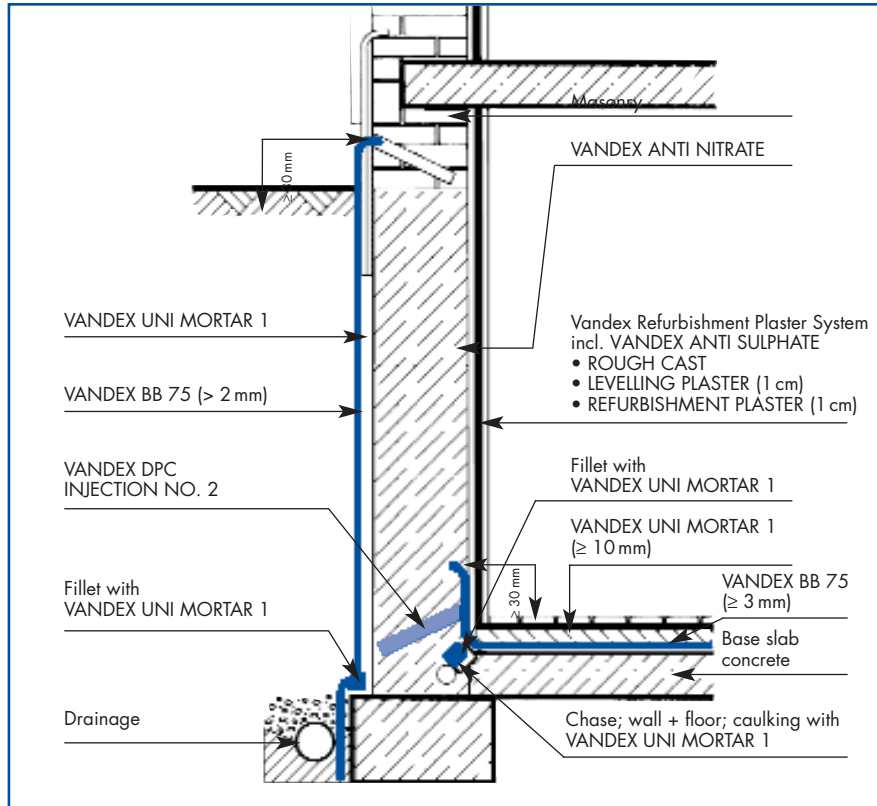


e) Hydrophobicity with narrowing of capillaries → water movement dramatically reduced.

# Combining the Options of the 4 VANDEX Modules, for Effective Property Refurbishment

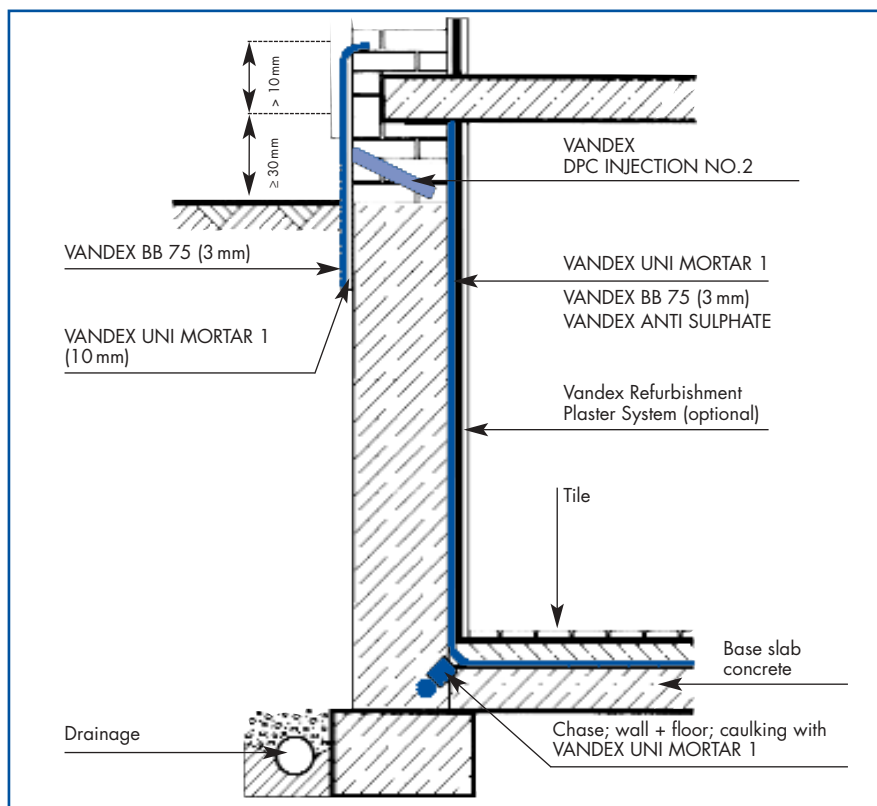
## Option 1

External waterproofing of basement



## Option 2

Internal waterproofing of basement



## Vandex Products are Comprehensively tested

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

These tests serve as independent evidence of the efficiency and specific properties of the various products.

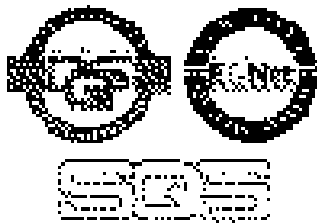


## Vandex Refurbishment Plaster System – Spray Applied



## Vandex Quality Management System

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



## Vandex Service



### Technical consulting

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



### Site supervision

If required, qualified Vandex personnel can demonstrate or supervise applications on site, supporting local Vandex distributors and applicators, in the proper use of Vandex products.



### Training courses

Vandex regularly offer courses, either at the customer's premises, or Vandex's Headquarters and their demonstration centre.



### Lab services

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

# VANDEX Property Refurbishment Specialist Products



## Selected Specialist Products and their Areas of Application

Product Name	Brief Description	Consumption	Unit Size	Damp-proof course	Salt refurbishment	Brick hardening	Levelling	Bonding	Salt repository	Waterproofing	Fillets	Ingress	Dwelling climate	Decorative finish	Mechanical processing
<b>DPC INJECTION NO. 2</b>	Chemical damp-proof course, single component	1–2 ltrs/m and 10 cm wall thickness	30l	●	●										●
<b>INJECTION MORTAR</b>	Mineral damp-proof course, single component	1 kg/meter and 10 cm wall thickness	25 kg	●	●										●
<b>ANTI SULPHATE</b>	Sulphate converter, single component	approx. 1 kg/m <sup>2</sup>	14 kg	●	●										
<b>UNI MORTAR 1</b>	Waterproofing and repair mortar, single component	≥ 16 kg/m <sup>2</sup> (layer thickness = 8 mm)	25 kg				●			●	●	●			●
<b>BB 75</b>	Cementitious waterproofing slurry, single component	6 kg/m <sup>2</sup> (layer thickness = 3 mm)	25 kg							●	●	●			●
<b>ROUGH CAST</b>	Ready-mix dry mortar conforming to WTA* for bonding	5 kg/m <sup>2</sup> (open textured, covering approx. 50% of the surface)	40 kg			●		●							●
<b>LEVELLING PLASTER</b>	Ready-mix dry mortar for levelling the plaster substrate and as a salt repository	13,5 kg/m <sup>2</sup> (layer thickness = 10 mm)	30 kg	●			●		●						●
<b>REFURBISHMENT PLASTER white</b>	Ready-mix dry mortar for masonry refurbishment	12,5 kg/m <sup>2</sup> (layer thickness = 10mm)	25 kg	●									●	●	●
<b>PLUG</b>	Rapid setting mortar to stop water ingress	site-dependent	15 kg							●		●			
<b>INJECTION GROUT</b>	Cementitious non-shrinking caulking and injection material	site-dependent	20 kg							●		●			

\* WTA = International Association for the Science and Technology in Maintenance of Structures and Protection of Monuments.

- Vandex Services:**
- Competent consultation in property refurbishment
  - Problem analysis, proposals of solution
  - Applicator instructions



## 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: vandex@vandex.com      www.vandex.com

### PRODUCTION AND SALES GERMANY: 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: vandex@vandex.de      www.vandex.de

### SALES U.K.: VANDEX (UK) LTD

P.O.Box 200, Guildford, Surrey GU24WD/United Kingdom  
Phone 0870 241 6264, Fax 0870 241 6274  
E-mail: info@vandex.co.uk      www.vandex.co.uk