

## Premixed mortar for plastering damp and/or salt contaminated interior and exterior walls

- Insulating and refurbishment plaster according to WTA\* Specifications 2-2-91
- possible to finish within 12 hours
- creates a dry surface (no condensation)
- up to 40 mm in one working cycle

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

Reaction to fire	class A1	CE
Water absorption	$\geq 0.3 \text{ kg/m}^2$ after 24 h	
Water vapour permeability	$\mu \leq 15$	Vandex Isoliermittel-GmbH Industriestr. 19-23 DE-21493 Schwarzenbek 06 205 EN 998-1:2010/ZA.1 Renovation mortar for rendering/plastering of humid and/or salt containing internal and external walls, ceilings, columns and partitions
Adhesion	0.19 N/mm <sup>2</sup> fracture pattern B	
Thermal conductivity	$\lambda_{10, dry, mid} \leq 0.188 \text{ W/(m} \cdot \text{K)}$ (tab. mean value; P = 50%)	
Durability (against freeze/thaw)	evaluation based on provisions valid in the intended place of use of the mortar	

### PRODUCT DESCRIPTION

A premixed white mortar in accordance with DIN 18 557, mortar group PII pursuant to DIN 18 550, providing a hydrophobic, aerated plaster with a high vapour diffusion, for building refurbishment.

### AREAS OF APPLICATION

VANDEX INSULATION PLASTER provides a durable plaster for damp and salt contaminated masonry. It is ideal for refurbishment of basements, vaults, and old structures. It produces a dry, efflorescent free surface.

The insulating property will improve the climate in a room and also benefit the energy costs of the property.

Because of its lime content, VANDEX INSULATION PLASTER is ideally suited to plaster refurbishment in historic buildings. It is equally suitable for use on damp areas in both new and existing structures. It has thermal insulation properties and is effective in reducing or eliminating condensation. VANDEX INSULATION PLASTER is ideal for use after insertion of a damp proof course.

### PROPERTIES

VANDEX INSULATION PLASTER:

- Excellent insulating property
- is a lime-cement plaster (mortar group PII) with low crack susceptibility
- is a hydrophobic aerated plaster with high water vapour diffusion
- creates a salt free, dry and condensation free surface
- allows damp substrates to dry, is however not a plaster that will dry out structures
- is suitable for trowel or spray application
- 20–40 mm application in one working cycle
- lower setting time makes it possible to finish plaster work within one working day

### SURFACE PREPARATION

Remove existing plaster or any coatings or loose particles which would inhibit bonding, down to bare masonry (in the case of rising damp, up to 1 m above signs of visible damp or salt contamination). Remove any other foreign bodies from within the structure that could cause disruption, such as timber or steel. Rake out loose mortar joints to a depth of approximately 20 mm. Thoroughly clean the walls by wire brush or other suitable means (do not use water) and immediately sweep up resulting debris from the floor before

it can cause any further contamination. Protecting the floor with polythene prior to preparation of the wall is recommended. If the wall is very porous it must be pre-watered, generally is VANDEX ROUGH CAST to be applied 50% coverage. On gypsum walls or at internal waterproofing should VANDEX ROUGH CAST be applied 100% coverage. VANDEX LEVELLING PLASTER is recommended for evening out substrates.

### MIXING

Sprinkle the contents of one bag (20 kg) of VANDEX INSULATION PLASTER into approx. 5.1 litres of clean, cold water. Mix thoroughly with a forced action mixer for at least 3 minutes, ensuring the mortar is thoroughly and evenly mixed.

### APPLICATION

VANDEX INSULATION PLASTER is applied by trowel or spray. VANDEX INSULATION PLASTER is applied in one layer in a thickness of 20 mm and a maximum of 40 mm per layer. On very damp substrate and in case of medium to high salt contamination generally two layers should be applied (10 mm VANDEX LEVELLING PLASTER can form the first layer). Waiting time between coats or a subsequent finish coat is 12–18 hours. Intermediate coats must have a rough textured finish to provide a key to subsequent layers. In case the VANDEX INSULATION PLASTER is left as a finish the surface is treated as follows: Strike and level with aluminium straightedge, allow to set and finish with a wood float. Do not apply water to the surface. VANDEX INSULATION PLASTER reaches its final properties when fully dried.

### REMARKS

- The application of VANDEX INSULATION PLASTER is subject to the Plaster Guidelines in accordance with DIN 18 550: heat, frost and high winds must be avoided during application and up to 24 hours thereafter. During this period, the VANDEX INSULATION PLASTER must be kept damp.
- In case of rising damp, install a damp proof course (See working guidelines for VANDEX IC and VANDEX INJECTION MORTAR [VIM])
- Protect glass, woodwork, built-in object against contamination.

## CONSUMPTION

Approx. 7.5 kg/m<sup>2</sup> per 10 mm of thickness of VANDEX INSULATION PLASTER. Minimum 20 mm.

## PACKAGING

20 kg PE-lined paper bag

## STORAGE

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

## HEALTH AND SAFETY

Please refer to Safety Data Sheet on [www.vandex.com](http://www.vandex.com).

TECHNICAL DATA		
Appearance		white powder
Working time	[min.]	30–40
<b>Fresh mortar</b>		
Grain size	[mm]	0–2.2
Void content	[% vol.]	40
Water retention	[%]	>85
<b>Hardened mortar</b>		
Density	[kg/l]	0.8
Water vapour resistance factor		<12
Compressive strength	[N/mm <sup>2</sup> ]	<3.5
Compr./Bend. tensile strength ratio	[N/mm <sup>2</sup> ]	<3
Capillary water absorption	[kg/m <sup>2</sup> ]	>0.3
Water penetration depth	[mm]	<4
Porosity	[% vol.]	45
Further data: please refer to CE marking		
All data is averaged from several tests under laboratory conditions. In practice, climatic variations such as temperature, humidity, and porosity of substrate may affect these values.		

The information contained herein is based on our long-term 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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