LEVELLING PLASTER

Premixed mortar for levelling uneven substrates and creating salt inclusion zones

- *levelling plaster in accordance with WTA* Specifications 2-2-91*
- *provides optimum bonding for following coat of VANDEX REFURBISHMENT PLASTER white*

Reaction to fire	class A1	CE
Water absorption	W 2	
Water vapour permeability	$\mu = 11$	Vandex Isoliermittel-GmbH Industriestr. 19-23 DE-21493 Schwarzenbek 06 076 EN 998-1:2010/ZA.1 General purpose mortar for rendering/plastering of humid and/or salt containing internal and external walls, ceilings, columns and partitions
Adhesion	≥ 0.08 N/mm² fracture pattern B	
Thermal conductivity	$\lambda_{10,dry,mat} \leq 0.45$ W/(m · K) (tab. mean value; P = 50%)	
Durability (against freeze/thaw)	evaluation based on provisions valid in the intended place of use of the mortar	

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

PRODUCT DESCRIPTION

Premixed mortar, in accordance with DIN 18 557, mortar group PII pursuant to DIN 18 550, for levelling recessed joints, uneven spots and fissures in masonry prior to the application of VANDEX REFURBISHMENT PLASTER white.

AREAS OF APPLICATION

VANDEX LEVELLING PLASTER is used for flattening uneven substrates to ensure a uniform thickness of the following refurbishment plaster coat. In cases of salt contamination, VANDEX LEVELLING PLASTER also acts as a salt inclusion matrix and therefore inhibit salt damage.

PROPERTIES

The properties of VANDEX LEVELLING PLASTER have been adapted to VANDEX REFURBISHMENT PLASTER white.
Although slightly hydrophobic, VANDEX LEVELLING PLASTER has sufficient suction to ensure excellent bonding with the succeeding VANDEX REFURBISHMENT PLASTER white coats.
The high void content of VANDEX LEVELLING PLASTER means it has a very good capacity for restraining potentially harmful salts contained in the substrate. (See the VANDEX ROUGH CAST data sheet for dealing with salts.)

SURFACE PREPARATION

VANDEX LEVELLING PLASTER is applied onto a sufficiently hardened (at least 4 hours) damp but not wet VANDEX ROUGH CAST in a thickness of a minimum of 10 mm and a maximum of 20 mm per layer.

MIXING

Sprinkle the contents of one bag (25 kg) of VANDEX LEVELLING PLASTER into approx. 4.25–5.25 litres of clean, cold water. Mix thoroughly with a forced action mixer for at least four minutes, ensuring the mortar is thoroughly and evenly mixed.

APPLICATION

VANDEX LEVELLING PLASTER can be applied by trowelling or spraying.
For areas in excess of 20 mm and up to 60 mm, apply in coats no exceeding 20 mm in thickness, leaving at least 4 hours between coats. Surfaces should be scratched to ensure good bonding with succeeding layers.

Apply the VANDEX REFURBISHMENT PLASTER white 2–4 days later. If VANDEX LEVELLING PLASTER is more than 20 mm thick allow 1 extra day per additional millimetre.

REMARKS

a) VANDEX LEVELLING PLASTER is applied onto the open textured coat of VANDEX ROUGH CAST.
b) The application of VANDEX LEVELLING 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 LEVELLING PLASTER must be kept damp.
c) Protect glass, woodwork, or any other built-in object against contamination.
d) If contamination occurs, clean affected surfaces immediately.
e) Clean all tools and equipment with water, immediately after use.
f) No special precautions are necessary for disposing of hardened material.

CONSUMPTION

Approx. 13.5 kg/m² per 10 mm of thickness of VANDEX LEVELLING PLASTER. Minimum plaster thickness is 10 mm.

PACKAGING

25 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

VANDEX LEVELLING PLASTER contains cement. Irritating to respiratory system and skin. Risk of serious damage to eyes. – Keep out of reach of children. Do not breathe dust. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection. If swallowed, seek medical advice immediately and show this container or label. – For further information please refer to Safety Data Sheet on www.vandex.com.

TECHNICAL DATA			
Appearance		grey powder	
Working temperature	[°C]	>5	
Working time	[min.]	25–40	
Fresh mortar			**WTA Spec. 2-2-91**
Consistency	[cm]	15	acc. to manufacturer
Density	[kg/l]	approx. 1.35	–
Void content	[% vol.]	28	>20
Hardened mortar			
Density	[kg/l]	1.3	–
Water vapour resistance factor		11	<18
Bending tensile strength	[N/mm²]	1.9	–
Compressive strength	[N/mm²]	5.5	≥ refurbishment plaster
Capillary water absorption	[kg/m²]	2.0	>1
Water penetration depth	[mm]	5.5	<5
Porosity	[% vol.]	45.5	>45

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.

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