

Construction solutions

Plasters

Exterior/ Interior

DEKO professional Polyurethane Nano Plaster with fibres D1.5



Deko professional Polyurethane Nano Plaster is based on nano dispersion, pigments, fillers and special additives. It is used as one-layer protective and decorative coating over concrete bases, gypsum cardboard plates, gypsum putty, cement plasters and putty, etc. Finish coating when making facade thermal insulation system DEKOTHERM®.

Properties

- Easy application and structuring;
- Very good cohesion with the base;
- High vapor permeability;
- Low water absorption;
- Excellent resistance to mechanical influences;
- Excellent endurance to adverse atmospheric effects;
- High colour resistance to UV rays;
- Forms a protective coating resistant to fungi, mould and bacteria;
- The plaster displays unique self-cleaning effect;
- Good elasticity;
- Resistance to aging;
- Keeps the fresh appearance of facades;
- Resistant to washing.

Colours

Produced in white. There is an option for tinting.

Technical characteristics

Appearance (after stirring) visually	viscous mass with particle content in the range of 1.5 – 2.0 mm
Density: (BNS EN ISO 2811-1:2011)	1,95 ± 0,05 kg/L
Non-volatile substances content: (BNS EN ISO 3251: 2008)	min 80 %
Water-vapour transmission coefficient (BS EN ISO 7783-2: 2011)	class V2
Liquid water permeability: (BNS EN1062-3:2008)	class W1
Adhesion: (BNS EN 1542:1999)	> 0,3 MPa
Durability (BNS EN 13687-3:2002)	≥ 0.6 Mpa
Equivalent heat conductivity coefficient (λ) (BNS EN 1745: 2012)	λ = 0,97 W/mK
Reaction to fire: (BNS EN 13501:2007+A1:2009)	Euroclass A2 - s1,d0
Consumption, kg /m ² :	2.3 - 2.8 kg/m ²
Dry to the touch (hours) (23°C, 65% H.R.)	2 - 3
Drying in depth (days) (23°C, 65% H.R.)	2 - 3

The exact consumption value is determined after testing part of the work surface.

Suitable bases
Concrete surfaces, thermal insulation systems Mineral plasters and cement based plasters Gypsum cardboard plates Gypsum fiber, etc

Unsuitable bases
Lacquer coatings, oil-based paints New lime plasters Distempred paints Plastic coatings

Preparation of the base	
New surfaces	Old surfaces
<p>The surface must be dry, clean and sound. Residues of shuttering oils over concrete should be treated with a steam spraying instruments or with special preparations for removing of oils. After this preliminary treatment or directly on the sound and dry base apply DEKO professional Silicone primer for plasters. It is recommended for the primer to be tinted in the same colour range as the colour of the plaster.</p>	<p>Chalking and loose surfaces should be mechanically cleaned. Residues of shuttering oils over concrete should be treated with a steam spraying instruments or with special preparations for removing of oils. Cracked and uneven surfaces should be leveled with DEKO professional DekoFlex Adhesive and Plastering mixture for thermal insulation panels or Universal Adhesive and Plastering mixture for EPS/XPS. After this preliminary treatment or directly on the sound and dry base apply DEKO professional Silicone primer for plasters. It is recommended for the primer to be tinted in the same colour range as the colour of the plaster.</p>

Application	
Recommendation	Stir well before use. If necessary 25 kg of plaster may be diluted with max 0,5 L water.
Application conditions	Work at temperature of the environment and the base above 10°C.
Dilution	with water
Application method	Apply the plaster in an even layer with a smooth metal stainless trowel that is held at an angle of 45° to the base. After plaster application the relief structure may be shaped with circular movements using a plastic trowel. The processing time depends on the absorption of the substrate and the air temperature.

Application tools	
Metal stainless trowel	yes
Plastic trowel	yes
Roller	no

Application systems				
New surfaces			Old surfaces	
Stage	Product	Coats	Product	Coats
Priming	DEKO professional Façade primer PS-112/ Nano primer/ Silicone primer for plasters	1	Deko Professional Façade Primer PS-112, excluding the cases when thermal insulating systems are being made	1
Finishing coat	DEKO professional Polyurethane Nano Plaster with fibres D1.5	1	DEKO professional Polyurethane Nano Plaster with fibres D1.5	1

Cleaning
Instruments are cleaned with water before and immediately after use.

Packages
25 kg

Classification
The product complies with harmonised standard BNS EN 15824:2009 Specifications for plasters based on organic binders.

Storage
Store in sheltered, dry and ventilated warehouses, protected from direct atmospheric impacts at temperatures between 5°C - 25°C.

Shelf life
18 months from the production date in fabrically closed original packaging in case the storage conditions stated by the producer are kept.

Safety measures
The product is not classified as dangerous. If necessary – refer to the Material Safety Data Sheet.

The present technical description has the purpose to inform the clients on the product. Orgachim JSC invites its clients before work to check the quality of the product or its adaptation to the base, to make an experimental application, to use the product properly, to keep the application conditions in accordance with the label prescriptions and technical parameters.

In the absence of control over the conditions and method of application, the manufacturer does not provide a guarantee of its durability as well as of any direct or indirect consequential damages caused or related to the use or application of the product. Users must be assured that the current description is the last and has not been replaced by a newer version.