



MACHINE-APPLIED HYBRID PLASTER

- combines the advantages of gypsum and cement plasters
- extremely strong surface
- resistant to microcracks



MACHINE
APPLICATION



MANUAL
APPLICATION



PLASTER
WORKABILITY TIME



INCREASED IMPACT AND
SCRATCH RESISTANCE



BREATHABLE



APPLICATION

- for single-layer rendering of interior walls,
- for all rooms with a maximum air humidity of 80 % - including kitchens and bathrooms, garages, utility rooms etc.,
- ideal as substrate for paints, finishing coats and wallpaper,
- as substrate for decorative plasters,
- ideal as substrate for wall tiles (including large-format tiles) with a weight of up to 35 kg/m².

PROPERTIES

- innovative, ready-to-use hybrid gypsum-cement mortar;
- a combination of two binders characterised by different properties - synthetic gypsum for easier processing and Portland cement for increased strength, as well as selected mineral fillers and chemical additives;
- a balanced composition of raw materials and a coordinated ratio of the two binders give the finished plaster a number of particularly sought-after properties and characteristics:
 - it ensures high strength, hardness and resistance of the surface to scratching as well as excellent adhesion to the substrate,
 - the cement binder makes the plaster more resistant to moisture,
 - thanks to its parameters, the rendering mortar can be used also in rooms with less favourable ambient conditions.

SUBSTRATE PREPARATION AND PRIMING

Suitable for all typical construction substrates, such as concrete, reinforced concrete, clay and sand-lime bricks or aerated concrete. The substrate should be:

- stable,
- dry,
- free from efflorescence and cleaned of impurities that could impair adhesion of the plaster coating, especially dust, loose fragments, mould oil, grease, residues of paint coats and release agents.

The substrate must be properly cured and its moisture content must not exceed 3 %. All steel components that may come into direct contact with the plaster must be protected against corrosion. Do not apply the plaster to frozen substrates.

Priming

- Highly absorbent and porous substrates (aerated concrete, lime-sand and clay bricks) must be primed with one of EURO-GRUNT PRIMERS: EU RO-GRU NT 300 or EU RO-GRU NT 500 (see instructions for the preparation of the primer in the technical data sheet of the product).
- Smooth substrates or substrates with low absorbency (concrete) must be primed with INTER-GRUNT PRIMER.

MORTAR PREPARATION

The machine-applied hybrid plaster THM must be applied with a plastering machine.



METHOD OF APPLICATION

Spray the soft plaster onto the substrate horizontally in overlapping stripes from top to bottom.

Then level the mortar with a H-type levelling spatula, and after 80 - 120 minutes with a trapezoidal spatula. In the final stage of application wet the plaster with water mist and wipe with a sponge trowel in order to "draw" the milk out on the surface. After tarnishing, smooth the plaster surface with a long spatula.

CARE OF THE PLASTER COAT

During the first 24 hours after applying the hybrid plaster, it should not be exposed to drafts and direct sunlight. After this time, intensive ventilation of the rooms is recommended, which will greatly facilitate the plaster drying. Drying time depends on the thickness of plaster, temperature and humidity in the room. It is assumed that plaster with a thickness of 10 mm, in a properly ventilated room and at a temperature above 15°C takes approximately 10-14 days to dry. In order to start further finishing works, the plaster moisture content should not exceed 1 %.

PLASTER THICKNESS

Maintain a minimum plaster thickness of 8 mm on the walls and ceilings, and a maximum of 15 mm on the floors and 40 mm on the walls. Breaks during the application may be maximum 20 minutes. For longer breaks, empty and clean the plastering machine, tools and hoses.

In special cases where the walls require coating with plaster thicker than 30 mm, it is recommended to apply the plaster in two coats - the second coat should be applied before the first coat starts to set (the so called "wet on wet" technology).

Cables must be covered with a plaster layer not less than 5 mm thick.

FINISHING WORK

The surface may be finished with a finishing coat, e.g. Dolina Nidy OMEGA or EKO-MAS. In order to proceed to further works, the plaster must be dry (moisture content of 1%), stable and free from dust. Finishing works must be carried out in accordance with the manufacturer's instructions included in the technical data sheets for the respective finishing material.

SUBSTRATE FOR WALL TILES

Plaster intended as a substrate for wall tiles must be applied in a single layer with a minimum thickness of 10 mm. The maximum thickness of plaster as substrate for wall tiles is 30 mm. Before laying the tiles, check the moisture content of the plaster, which should be less than 1 %. The plaster surface should be rough - it should not be smoothed or trowelled smooth. In wet areas provide ATLAS WODER E waterproofing together with ATLAS HYDROBAND 3G tapes and corners.

The tiles should be glued using the combined method with C2S1 adhesives, e.g. ATLAS ULTRA GREOFLEX. Follow the manufacturer's instructions for the waterproofing system and the tile adhesive. Maximum weight of tiles including adhesive: 35 kg/m².

CONSUMPTION

The average consumption is approx. 13.5 kg per 1 m² at a layer thickness of 10 mm (consumption depends on, among other things, the evenness of the substrate, the consistency of the mortar during the application and the type of construction material).

PACKAGING

Paper bags: 30 kg.

Pallets: 36 packages of 30 kg = 1080 kg

TOOLS

Plastering machine, H-type levelling spatula, darby, spirit level, stainless steel plastering tools (long spatula, steel trowel, angle spatula), plane for corners, sponge float. Clean the tools with water directly after use.

SAFETY INFORMATION

Safety information is provided on the product packaging and in the Safety Data Sheet available at dolinanidy.com.pl.

The product has a Hygiene Certificate and a Radiation Hygiene Certificate.

STORAGE AND TRANSPORT

Information on storage and transport is provided on the product packaging and in the Material Safety Data Sheet available at www.dolina-nidy.com.pl.

The shelf life (usability) of the product is 3 months from the production date on the bag.

TECHNICAL SPECIFICATION

Mixing ratio	approx. 11.1 l water per 30 kg
Yield	100 kg dry mix = approx. 100 l mortar
Pot life of the plaster	240 ± 30 minutes (the indicated time may vary depending on the material storage conditions, the type of substrate, the consistency of the mortar during the application and the temperature and humidity in the room)
Conditions during plastering	temperature of the surface and ambient temperature from +5°C to + 25°C
Adhesion to the substrate	> 0.5 N/mm ²
Bending strength	> 2.0 N/mm ²
Compressive strength	> 7.0 N/mm ²
Surface hardness	> 13.0 N/mm ²
Volumetric weight	approx. 1350 kg/m ³
Minimum layer thickness	8 mm
Maximum layer thickness on walls	40 mm
Maximum layer thickness on ceilings	15 mm

TECHNICAL REQUIREMENTS

The product is a construction product with a technical specification according to the harmonised European standard EN 13279-1:2008. Classification B2/50/2

DOLINA NIDY THM (2021) Declaration of performance no EC 32/CPR EN 13279-1:2008	
Intended use: general construction work	
Reaction to fire (with direct exposure)	A1

CAUTION

Strictly observe the instructions for:

- proper storage of the product,
- priming and proper preparation of substrates,
- application of recommended thickness of plaster,
- appropriate humidity, substrate temperature and ambient temperature,
- recommended plaster care procedures.
- The manufacturer shall not be liable for any consequences resulting from the use of the product contrary to the above recommendations and the rules of construction.

The information in the Product Data Sheet constitutes basic guidelines concerning the use of the product and does not release from the obligation to conduct work according to the best construction practices and health and safety at work regulations. On the date of issue of this Product Data Sheet, all previous Product Data Sheets become invalid.

The accompanying documents for the product are available at www.dolina-nidy.com.pl.

The content of the Product Data Sheet as well as the symbols and trade names used in it are the property of Atlas sp. z o. o. Their unauthorized use will be sanctioned.

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