

DOLINA NIDY**BETA®****light machine-applied gypsum plaster**

- for single-layer gypsum plaster work
- improved performance and adhesion
- for indoor use

**Machine application****Plaster workability time****Apply temperature****Eco product**

USE

- for internal single-layer gypsum plastering in housing, public buildings, hotels, hospitals, schools, etc,
- can be applied both on walls and ceilings, in rooms with normal humidity, including kitchens and bathrooms,
- for use on substrates of ceramic elements, lime-sand brick, normal and cellular concrete.

PROPERTIES

- a modern material produced on the basis of natural and synthetic gypsum - the appropriate combination of these two binders made it possible to obtain a plaster with even better performance parameters: greater mechanical strength and lower water content; as a result, the surface of the finished plaster is more resistant to the factors associated with daily use of the premises,
- the use of lightweight mineral fillers has made it possible to improve the surface treatment during application and to increase the efficiency of the plaster; combined with the machine application method, this ensures rapid progress of the plastering work and a reduction in its cost,
- the surface of the finished plaster is even, smooth, hard and provides an excellent substrate for painting, wallpapering and laying ceramic cladding,
- the use of gypsum plaster ensures a favourable indoor microclimate, which has a positive effect on human health and well-being.

MORTAR PREPARATION

BETA LIGHT MACHINE-APPLIED GYPSUM PLASTER is prepared for use and applied with plastering units.

SUBSTRATE PREPARATION

The substrate should be stable, dry, free of efflorescence and cleaned of any impurities that could impair the adhesion of the gypsum, especially dust, free particles, formwork oils, grease, remains of paint coatings and release agents. The substrate should be properly seasoned and its moisture content should not exceed 3%. Highly absorbent and porous substrates (cellular concrete, lime-sand brick and ceramic) should be primed with one of the EURO-GRUNT PRIMERS. Smooth or slightly absorptive substrates (concrete) should be primed with the INTER-GRUNT PRIMER. All the steel elements that can be in direct contact with plaster should be protected against corrosion. Frozen substrates should not be plastered.

METHOD OF APPLICATION

The plaster mass of plastic consistency is sprayed onto the substrate in horizontal strips overlapping in the direction from top to bottom. It is recommended to maintain a plaster layer thickness of at least 8 mm on walls and ceilings and a maximum of 15 mm on the ceiling and 30 mm on the walls. Interruptions in the application of the compound may last up to a maximum of 20 min. For longer intervals, the unit, tools and hoses must be emptied and cleaned. The mortar is then levelled with an H-type plastering rule and after 80÷120 minutes with a trapezoidal patch. In the final stage of processing, the plaster should be moistened with water in the form of a mist and rubbed with a sponge float to "draw" the milk onto the surface. After it has matted, smooth the plaster surface with a long putty knife. Attention: Plasters on which the application of ceramic tiles is planned should be smoothed with a sponge float "sharply". During the first 24 hours after application of the gypsum plaster, it should not be exposed to draughts and direct sunlight. After this time, intensive ventilation of the rooms is recommended, which will greatly facilitate drying of the plaster. For detailed information on substrate preparation and plastering work, please refer to the 'Instructions for application of mechanically imposed gypsum plaster'. The plaster drying time depends on the plaster thickness, temperature and humidity in the room. It is assumed that plaster 15 mm thick, in a properly ventilated room and at a temperature above 15° C dries in about 14 days. The plaster surface must be sufficiently dry before any further cladding work is carried out.



CONSUMPTION

On average, approx. 0.8 kg is used at² 1 m with a layer thickness of 1 mm.

PACKAGING

Paper bags 30 kg; bulk in silo.

TOOLS

Plastering unit, "H" batten, trapezoidal batten, spirit level, stainless steel plastering tools (long putty knife, steel trowel, angle spatula), corner planer, sponge float. Clean the tools with water, immediately after use.

SAFETY INFORMATION

Safety information is given on the product packaging and in the Safety Data Sheet, available at dolina-nidy.com.pl.

The product is hygienically certified and has a Radiation Hygiene Certificate.

STORAGE AND TRANSPORT

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

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

TECHNICAL REQUIREMENTS

The product is a construction product for which the technical specification is the harmonised European standard PN-EN 13279-1:2009.

TYNK GIPSOWY MASZYNOWY LEKKI BETA DOLINA NIDA (2019) Declaration of Performance No. EC 19/1/CPR EN 13279-1:2008 (PN-EN 13279-1:2009)	
Intended use: General construction	
Reaction to fire (with direct exposure)	A1

TECHNICAL DATA

Mixture proportions	approx. 19.8 l water per 30 kg
Performance	100 kg gypsum = approx. 125 l mortar
Processing time	240 ±30 minutes (stated time may vary depending on material storage conditions, type of substrate, mortar working consistency and room temperature and humidity)
Conditions during plastering: - substrate and ambient temperature - room humidity	from +5° C to +25 C° up to 70%
Adhesion to the substrate	≥ 0.1 N/mm ²
Bending strength	≥ 1,0 N/mm ²
Compressive strength	≥ 2.0 N/mm ²
Bulk weight	approx. 780 kg/m ³
Volumetric weight	approx. 850 kg/m ³
Minimum layer thickness	8 mm
Maximum layer thickness on the wall	30 mm
Maximum layer thickness on the ceiling	15 mm
Thermal conductivity coefficient [λ].	< 0.2 W/m-K
Diffusion resistance coefficient [μ].	10

NOTE

It is imperative that:

- proper storage of the product
- priming and proper preparation of substrates
- use of recommended render thicknesses
- the correct substrate and ambient humidity and temperature
- recommended plaster care

The manufacturer will not be held responsible for any consequences arising from as a result of using the product contrary to the above recommendations and the rules of the art.

The information contained in this Technical Information Sheet is a basic guideline for the use of the product and does not relieve the user of the obligation to carry out the work in accordance with the rules of the art of construction and safety regulations. With the issue of this Technical Data Sheet, all previous ones are no longer valid. Documents accompanying the product are available at www.dolina-nidy.com.pl.

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