



- increased strength and resistance to mechanical damage
- recommended for public buildings, staircases and corridors
- for indoor use



APPLICATION

- for indoor single-layer gypsum plasters in public buildings, hotels, hospitals, schools and residential buildings,
- can be applied on walls and ceilings, in rooms with normal air humidity, also in kitchens and bathrooms,
- intended for use on substrates made of ceramic elements, lime-sand bricks, standard and cellular concrete after proper preparation of the substrate,
- perfect substrate for laying ceramic tiles, painting and wallpapering.

PROPERTIES

- modern, ready-to-use mortar based on synthetic gypsum, mineral fillers and chemical additives,
- high binder content and appropriately selected aggregate ensure extremely good performance parameters of the finished plaster coating: increased surface hardness and very high mechanical strength; perfectly suitable for plastering in places particularly exposed to damage during use,
- ensures favourable room microclimate, with beneficial influence on human health and well-being.

SUBSTRATE PREPARATION

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 anti-adhesion agents. The substrate must be properly cured and its moisture content must not exceed 3%.

Highly absorbent and porous substrates (porous concrete, lime-sand and ceramic bricks) must be primed with one of EURO-GRUNT PRIMERS. Smooth substrates or substrates with low absorbency (concrete) must be primed with INTER-GRUNT PRIMER. All steel components that may directly come into contact with plaster should be protected against corrosion. Do not apply the plaster to frozen substrates.



MORTAR PREPARATION

MACHINE-APPLIED GYPSUM PLASTER ZETA is prepared and applied using plastering machines.

METHOD OF APPLICATION

Spray the plaster mix of plastic consistency onto the substrate horizontally in overlapping stripes from top to bottom. Maintain a minimum plaster thickness of 8 mm on the walls and ceilings, and a maximum of 15 mm on the floors and 30 mm on the walls. Do not interrupt the application for more than 20 minutes. For longer breaks, empty and clean the plastering machine, tools and hoses. 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 float in order to "extract" bleed water onto the surface. After tarnishing, smooth the plaster surface with a long spatula.

Attention! Plasters to be subsequently tiled must be left rough-wiped with sponge trowel. During the first 24 hours after applying the gypsum plaster do not expose the plaster surface to direct sunlight and draughts. After this time, intensive ventilation of the rooms is recommended, which will greatly facilitate the plaster drying. Detailed information on substrate preparation and application of plasters is available from the manufacturer. Drying time depends on the thickness of plaster, temperature and humidity in the room. It is assumed that plaster with a thickness of 15 mm, in a properly ventilated room and at temperature above 15°C, takes approximately 21 days to dry. Before the commencement of other works or painting, the surface of plaster must be sufficiently dry.

CONSUMPTION

The average consumption is approx. 1.1 kg of plaster per 1 m² of substrate at a layer thickness of 1 mm.



PACKAGING

30 kg paper bags; bulk in a silo.

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 www.dolina-nidy.com.pl.

The product has a Hygiene Certificate issued by the National Institute of Public Health – National Institute of Hygiene 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 of the product (use-by date) is 3 months from the production date on the bag.

TECHNICAL REQUIREMENTS

The product is a construction product with a technical specification according to the harmonised European standard PN-EN 13279-1:2009 – B7/50/6.

MACHINE-APPLIED GYPSUM PLASTER WITH INCREASED SURFACE HARDNESS ZETA DOLINA NIDY (2019) Declaration of Performance no. EC 28/1/CPR EN 13279-1:2008	
Intended use: general construction work	
Reaction to fire (with direct exposure)	A1

TECHNICAL SPECIFICATION

Mixing ratio	approx. 13.8 l water per 30 kg
Yield	100 kg of plaster = approx. 110 l of 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: - 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	≥ 2.0 N/mm ²
Compression strength	≥ 6.0 N/mm ²
Ball hardness	12.0 N/mm ²
Bulk density	approx. 1,000 kg/m ³
Volumetric weight	approx. 1100 kg/m ³
Minimum layer thickness	8 mm
Maximum layer thickness on walls	30 mm
Maximum layer thickness on ceilings	15 mm
Thermal conductivity coefficient [λ]	< 0.27 W/m·K
Diffusion resistance coefficient [μ]	10

CAUTION

Strictly observe the instructions for:

- proper storage of the product
- priming and proper preparation of the substrate
- application of the recommended plaster thicknesses
- appropriate humidity, substrate temperature and ambient temperature
- recommended plaster care procedures

The manufacturer assumes no responsibility for the consequences of using the product contrary to the above guidelines and the best construction practices.

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.

Updated on: 13/10/2021

