

# DOLINA NIDY LIGHT MACHINE-APPLIED PLASTER

cement-lime plaster for outdoor use

- for mechanical and manual application
- performance of 14 kg/m<sup>2</sup>/cm
- grit size up to 1.0 mm
- light processing



Machine  
application



Pot life



Apply  
temperature



## USE

- for the application of modern plasters both inside and outside buildings
- recommended for machine and manual application
- for use as a category III topcoat or base plaster for ceramic tiles, cement render, thin-coat plaster, etc.
- recommended for substrates made of highly insulating materials (cellular concrete and expanded clay), can be used on substrates made of ceramic and lime-sandstone elements as well as concrete and chip-cement board

## PROPERTIES

- ready-mixed building mortar based on mineral binders (Portland cement, lime), quartz aggregate, perlite and additives improving working and application parameters
- versatile use, can be used on the same project for both interior and exterior plasters
- light plaster,
- the cement binder provides the appropriate strength for the render, while the lime improves workability and facilitates handling of the render; the lime content also has a beneficial effect on the resistance of the render to cracking
- weather-resistant, can be used for plasterwork on building facades
- appropriately selected grain size (up to 1.0 mm), allows obtaining a plaster coat of high mechanical strength and increased adhesion to the substrate.
- can be used in a wide range of layer thicknesses (5 to 30 mm),
- high efficiency, approximately 30% higher than conventional cement or cement-lime plasters,
- mortar designed for machine application, ensures rapid plastering progress

## SUBSTRATE PREPARATION

The substrate should be suitably seasoned, dry, stable and cleaned of contaminants that could weaken the adhesion of the render and plaster. Plumbing voids should be filled with cement mortar before the render is applied.

For detailed recommendations, please refer to the table on the last page of the Technical Sheet.

Apply a bonding layer of CEMENT BASE COAT on the substrate, regardless of its type. Apply the CEMENT BASE COAT with a thickened consistency by hand or mechanically, on a suitably prepared substrate, maintaining 80 to 100% coverage. Do not level or trowel the obtained surface. Leave it for preliminary hardening (1-3 days) and then proceed to the application of the proper layer (plaster overlay). In case of technological intervals exceeding 7 days or complete drying of the render coat, moisten the coat with water directly before the plaster application. When plastering substrates of different technical parameters, e.g. at the junction of different construction materials (masonry wall and reinforced concrete lintels, etc.), as well as at the junction of chipboard and cement boards, it is recommended to use additional reinforcement made of alkali resistant reinforcing net (galvanised steel or glass fibre with mesh size 10x10 mm). The mesh is embedded in a thin layer of the applied cement-lime plaster and left for the mortar to set.

## MORTAR PREPARATION

The mortar is prepared in a plastering unit equipped with a screw pump, pouring the dry mixture from bags. In case of manual application, the mortar preparation consists in pouring the dry mixture evenly into a vessel with a measured amount of clean water, in proportions specified in the Technical Data, and then mixing manually or mechanically until a homogeneous mass without any lumps is obtained.



## METHOD OF APPLICATION

The prepared mortar is applied by machine with a spray gun or manually with a trowel. The application starts from the ceiling, then proceeds to the walls, in horizontal bands overlapping in a top-down direction. The superimposed mortar should initially be levelled using an "H" patch, the planes and angles should be brought out accurately and then allowed to set partially. Optimum layer thickness 10-20 mm on walls, 10-15 mm on ceilings. The sufficiently hardened plaster should be moistened with a water mist and thoroughly trowelled with a sponge float or mechanical trowel until the desired surface quality is achieved. Starting the trowelling too late may hinder the desired effect. If the plaster is to be used as a groundwork for ceramic cladding, the surface should be rubbed down sharply. In the course of plastering works, as well as during the plaster hardening period, it is recommended to observe the substrate and ambient temperature within the range from +5° C to +25 C.°

## RECOMMENDATIONS FOR THE CARE OF THE COATING

The fresh render should be carefully maintained for a period of approx. 7-14 days after treatment. During this period, ensure adequate ventilation of the rooms and categorically avoid draughts that may cause the plaster to dry unevenly. Protect the fresh plaster from direct sunlight and frost. While the render is drying, protect the surface from precipitation and direct sunlight (by means of screen nets). In case of elevated ambient temperatures (especially in summer), it is recommended to moisten the plaster surface daily with a fine water mist for up to 7 days. During winter works, it is recommended to maintain positive temperatures indoors (minimum +5° C). The plaster drying time depends, among other things, on the place of application and the thickness of the plaster layer, as well as the temperature and humidity in the room.

## RECOMMENDATIONS FOR FINISHING WORK

The render made as a topcoat can be painted with any facade paints. However, it is necessary to observe the required seasoning periods (depending on the type of paint) and to follow the recommendations of the manufacturer of the paint used with respect to, among other things, substrate preparation and application of primers. The plaster made as an undercoat is an excellent substrate for cement smoothing, and ceramic tiles may also be laid on it. Attention: It is recommended to commence finishing works when the plaster moisture content does not exceed 1%. In the event that hairline and shrinkage cracks are found on the plaster surface, in order to unify the properties of the ground before further finishing works, it is recommended to apply BRIDGING-PRIMING PAINT GRUNT-TYNK.

## CONSUMPTION

On average, approximately 1.4 kg is used per 1 m<sup>2</sup> with a layer thickness of 1 mm.

## PACKAGING

Paper bags 30 kg.

## TOOLS

Plastering unit, drilling machine with mixer, "H" patch, trapezoidal patch, spirit level, stainless steel plastering tools (trowel, steel trowel, long trowel, angle trowel), polystyrene trowel, felt trowel or mechanical trowel. Clean the tools with clean 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](http://dolina-nidy.com.pl).

The product is hygienically certified.

## 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](http://dolina-nidy.com.pl).

The shelf life of the product (best before use) is 12 months from the production date on the bag.

## TECHNICAL DATA

|                                        |                                                |
|----------------------------------------|------------------------------------------------|
| Mixture proportions                    | 5.85-6.15 litres of water per 30 kg of dry mix |
| Yield                                  | 100 kg mortar = approx. 72 l mortar            |
| Pot life                               | approx. 120 minutes                            |
| Max. aggregate diameter                | up to 1.0 mm                                   |
| Substrate and ambient temperature      | from +5° C to +25 C°                           |
| Minimum layer thickness                | 5 mm                                           |
| Maximum layer thickness on the ceiling | 15 mm                                          |
| Maximum layer thickness on the wall    | 30 mm                                          |

## TECHNICAL REQUIREMENTS

The product is a construction product for which the technical specification is the harmonised European standard PN-EN 998-1:2016-12 - lightweight plaster mortar (LW), with defined properties, manufactured in-house, for manual and mechanical application, for interior use on masonry walls, ceilings, columns and partition walls.

| TYNK MASZYNOWY LEKKI NA ZEWNĄTRZ DOLINA NIDY (2019)<br>Declaration of Performance No. D003/2/CPR<br>EN 998-1:2016 |                            |
|-------------------------------------------------------------------------------------------------------------------|----------------------------|
| Intended use:<br>for exteriors, walls, ceilings and columns;<br>for walls, ceilings, columns and partitions       |                            |
| Reaction to fire                                                                                                  | A1                         |
| Water absorption                                                                                                  | IN 1 <sub>c</sub>          |
| Water vapour permeability                                                                                         | $\mu \leq 30$              |
| Adhesion                                                                                                          | 0.3 N/mm <sup>2</sup> FP:B |

## NOTE

The information contained in this Technical Data Sheet is a basic guideline for the use of the product and does not release you from 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](http://www.dolina-nidy.com.pl).

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| Substrate type                                                            | Requirements                                                                                                | Preparation                                                                                                                                                                                                 | Method of priming                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Masonry walls made from cellular concrete or lime-sandstone elements      | seasoned for 2 to 3 months, moisture content of the substrate less than 3% (as determined by the CM method) | Clean the surface of the surface of dust, dirt, oil, grease, residues of paint coatings, etc. Chisel off any poorly bonded parts of the substrate or mortar, and clean any oily sections with a wire brush. | Priming with EURO-GRUNT 300 or EURO-GRUNT 500 is required. Apply the primer in a suitable dilution, by paintbrush brush or roller. Allow to dry completely (approx. 12 h, depending on external conditions).                                                                                                      |
| Masonry walls made of ceramic and expanded clay elements, ribbed ceilings |                                                                                                             |                                                                                                                                                                                                             | It is recommended to apply a primer EURO-GRUNT 300 or EURO-GRUNT 500 in a suitable dilution, alternatively wet the surface with water directly before applying the finishing coat. Apply the primer with a paintbrush, brush or roller. Allow to dry completely (approx. 12 h, depending on external conditions). |
| concrete and reinforced concrete                                          | Monolithic elements seasoned for 4-6 months, substrate moisture less than 3% (determined by CM method)      | Clean the surface of dust, dirt, oil, grease, residues of paint and release agents. Loosely bound parts of the substrate should be chipped and cleaned of dust.                                             | Priming with INTER-GRUNT is required. Apply the primer with a brush, brush, or painting roller. Leave until completely dry (approx. 24 h, depending on external conditions).                                                                                                                                      |