

GN 30

Gunite mortar

EN 998-1
GP/CSIV/W_c1

DESCRIPTION

Single component ready mortar, based on Portland grey cement, aggregates of various grain-sizes, various chemical additives and fibres. It does not contain lime.

The product is accompanied by an Environmental Product Declaration (EPD) regarding the environmental impact during its life cycle (EPD registration number: S-P-09530).

FIELDS OF APPLICATION

- For reinforcement during excavation works in open ground, inside tunnels, as well as for supporting foundation excavations.
- Repair of concrete coatings.
- Repair of industrial concrete structures.
- Coating and repair of stone or masonry surfaces.
- Construction of water tanks.
- Repair of hydraulic concrete structures such as canals, tunnels, tanks, etc.
- For supporting excavations in open ground, in tunnels, as well as for supporting foundation excavations.

CHARACTERISTICS/ADVANTAGES

- High strength.
- Excellent adhesion
- Moisture- and frost-proof
- Prevents cracking
- Excellent final surface
- Indoor and outdoor use
- Easy to apply
- Excellent workability
- Fast to prepare
- Stable quality

PRODUCT INFORMATION

| | |
|---------------------------|--|
| Composition | Portland cement, aggregates of selected grain size, special additives, fibers and polymer components |
| Appearance /colour | grey powder |
| Packaging | 30 kg paper bag – 1620 kg pallet (54 bags) |
| Storage conditions | Store in the original, closed, sealed packaging, protected from direct sunlight and frost and at temperatures from +5°C to +35°C |
| Shelf life | 12 months from date of manufacture |

TECHNICAL CHARACTERISTICS

| | |
|---|----------------------------|
| Specific gravity of wet mortar: | 2200 Kg/m ³ |
| Grading: | 0 - 4 mm |
| Apparent density of dry mortar: | 1700 Kg/m ³ |
| Compressive strength in 28 days: | 30 MPa (CSIV) (EN 1015-11) |
| Flexural strength in 28 days: | 5 MPa (EN 1015-11) |

APPLICATION INFORMATION

| | |
|--------------------------------|--|
| Application temperature | +5°C / +35°C |
| Mixing ratio | 3.5 – 4 lt water / 30 kg bag |
| Consumption | Approx 20 kg of dry mortar per m ² for 1 cm of thickness. |

DIRECTIONS OF USE

SUBSTRATE PREPARATION

Check that the substrate is clean, dry and free from loose particles and other materials.

MIXING

To prepare, simply add water.

For better results, it is recommended to use a sprayed concrete pump (guniting pump) or other special pump

APPLICATION

- Apply in successive coats up to 2 - 2.5 cm thick per coat
- The wet mortar must be distributed uniformly over the wall and must be fixed with special laths
- In case of high temperatures during application, the wet mortar must be protected against quick drying and remain wet
- The wet incident material that piles up on the floor must not be used again.
- Continue with the subsequent coats of MARMOLINE plaster (SV2, SV3, SV100, SV010), once the previous coat of GN 30 is well dry and in any case after 20 - 30 days, depending on the season

TOOLS CLEANING

If a pump is used, its rubber tubes must be thoroughly cleaned after the work is finished.

IMPORTANT NOTICE

- Not recommended for use in extreme weather conditions (frost or heatwave). Application temperature +5 °C to +35 °C.
- The content of the bag should be protected from humidity
- Do not add excessive amounts of water because this can reduce the product's strength
- In case you use a pump, the hoses must be cleaned well after the end of the work

HEALTH, SAFETY & ENVIRONMENTAL PROTECTION

Detailed information and instructions regarding the safe management of the product and in matters of Health & Safety, are provided in the most recent Safety Data Sheet (SDS), copies of which are available on the company's website <https://marmoline.gr/> or upon request.

LEGAL NOTICE


We guarantee the quality of all our products, based on their technical specifications, as described in the Declaration of Performance (CE) and this Technical Data Sheet. Such guarantee refers only to the products that we deliver for use and never to its application or final result, which largely depends on the experience and quality of work of each user and on the application conditions. The user is advised to test the product on a small scale, and if he is satisfied with the result, then to use the product on large scale in his project.

All data stated in this Technical Data Sheet are based on laboratory tests. The really measurable data might differentiate due to conditions that are not subject to our control. The recommendations and implementation instructions must be considered by the user as indicative, and always

with given that the product has been traded and traded and stored according to its instructions.

As it is not possible to control the parameters /conditions of its application product in practice, no guarantee is provided for the final result of each application. Consequently, no legal liability of the Company can be established based on the information and instruction given in this Technical Data Sheet.

The Company reserves the right to modify data listed in this Product Data Sheet, with no previous warning. Users must refer to the latest version of the product Technical Data Sheet .

| | |
|--|----------------------------------|
|  12 DoP: 004 MARMO-CPR | |
| NORDIA SA 364 Kifissias Av., 15233 Chalandri, Athens, Greece | |
| EN 998-1:2016 MARMOLINE GN 30 General purpose cement plaster/render (GP/CSIV/W _c 1) | |
| Reaction to fire: | Class A1 |
| Capillary water absorption : | W _c 1 |
| Water vapour diffusion coefficient : | μ= 15/35 |
| Adhesion | ≥ 0.7 N/mm ² (FPb) |
| Thermal conductivity/density (<i>tab. mean value; P= 50%</i>) | (λ _{10,dry}) 1.17 W/mK |
| Durability | NPD |
| Dangerous substances: | See product's SDS |