



T.M.P

Gypsum for casting (A1)

EN 13279-1



Description

A hemihydrate gypsum for casting (A1). It can be used for the production of gypsum decoration products as well as for casted gypsum products using the mold method.

Technical Specifications

Dry density	: $\approx 0.80 \text{ Kg / L}$
Mixing ratio (water / T.M.P)	: $\approx 21 \text{ L / 30 Kg}$
Reaction to fire	: Class A1
Compressive strength	: $\geq 10 \text{ N / mm}^2$
Setting time	: 20 – 25 minutes

Instructions for Use

MIXING

All molds, equipment and containers should be clean, free of dust, residues of previous mixtures and/or other building materials, etc. to not adversely affect the setting time and the mechanical properties of the product.

Use the minimum possible amount of water so that properties (e.g., Compressive strength) of the product are not affected.

Mix approximately 21 L of clean potable water with 30 Kg (1 bag) of **T.M.P** or 7 parts of water to 10 parts of **T.M.P** (per weight) depending on the amount of mixture you can use in 20 – 25 minutes, depending on the weather conditions.

Mix using a low-speed electric stirrer until a homogeneous, free of lumps mixture is achieved and the right consistency is obtained. Avoid over-stirring so to minimize air bubbles trapped in the mixture.

Add **T.M.P** slowly into the water, as to allow the air bubbles to escape from the mixture.

APPLICATION CONDITIONS

Use **T.M.P** only at temperatures between +5°C and +35°C.

APPLICATION

Casts in molds

The mixture should be poured into molds immediately after the mixing. Ideally, pour the mixture as close to the mold's sides as possible, to prevent trapping of air bubbles, while it is recommended to lightly tap the sides of the molds to achieve maximum possible compaction of the mixture.

Compaction of the mixture in the molds, can also be achieved by using a mechanical vibrator, while in that case, it is suggested that a mix with less water is prepared. For complicated molds, it is advisable that the mixture is worked by fingers or a small brush, as to achieve more detailed results

SETTING TIME

The setting time of the mixture is highly dependent from external factors, such as the mixing time and the mixing ratio, the storage time of the material, weather conditions, the cleanliness of the mixing containers, the purity of water etc.

Under ideal conditions, the setting time of the mixture is 20 – 25 minutes.

DECORATION

As soon as surface is completely dry, it can be decorated using emulsion paints, enamel paints etc from the ranges PELELAC® και SHERWIN-WILLIAMS®.

CLEANING OF EQUIPMENT

Clean all tools and mixing equipment thoroughly with plenty of water after completion of work, while the mixture is still fresh. In case that the mixture has been set, then tools can be cleaned only by mechanical means

REMARKS / LIMITATIONS

- Use only fresh, clean water for both mixing and cleaning.
- Avoid using material which was stored in open bags for a long period of time, as it may contain lumps or be contaminated.
- Never add water or new material to the mixture which has started to set to improve the workability.
- Do not add cement, gypsum, sand or any other materials to the supplied product, as this may negatively affect the final properties of the product.
- Avoid using the product under extreme weather conditions (strong winds, direct sunlight etc.).

PACKAGING

30 Kg multiwall paper bags (one layer of which is made of PE-HDPE).

STORAGE

T.M.P can be stored for 6 months from production date, in its original, unopened packaging in dry conditions. The storage place must be covered and protect the product from direct sunlight, water, and moisture, while the product must not be in direct contact with the floor.

Health and Safety Measures

- Keep out of reach of children.
- Follow Good Hygiene Procedures during work.
- Avoid creating flying dust
- Avoid breathing the product or its dust.
- Harmful if swallowed.
- Avoid contact with skin and eyes. In case of contact with eyes and skin, rinse immediately with plenty of water and, if necessary, seek medical advice.
- Wear suitable eye/face goggles with side shields, especially in cases of prolonged exposure or work.
- For further and complete information concerning the safe use of the product, please refer to the latest version of Safety Data Sheet.

Note 1: All Technical Data provided on section "Technical Characteristics" are based on laboratory trials and tests, under conditions which may significantly differ from the ambient application conditions. Therefore, the actual technical characteristics may vary due to conditions or circumstances beyond company's control.

Note 2: The information provided by our Technical Data Sheets or given by our employees, agents or distributors concerning the use of our products, is based upon extensive research and experience and are provided in good faith in order to help you. We guarantee the consistent high quality of our products; however, as we have no control over site conditions of the executions of work, we cannot accept any liability for any loss or damage, which may arise as a result thereof.

Note 3: All cement-based products, must be stored in dry sheltered places, on wooden pallets. Even under these circumstances, the products are influenced by the atmospheric moisture after a period of time. Since this period is not defined or standard, we strongly advise our customers not to use hardened products or if, generally, its quality due to storage is uncertain.