

## FP 140

EN 998-1  
GP/CSII/W<sub>c</sub>2

### Fine Finish, White, Water-repellent Render for exterior use

#### DESCRIPTION

Ready to use industrial mortar based on high-strength Portland white cement (I – 52.5), fine-grained aggregates from the famous Greek Dionyssos white marble, calcium hydroxide and special additives to improve adhesion and achieve water repellency.

Mix only with water. It minimizes material preparation time and increases the speed of application. Ideal where protection from moisture is required.

With EUROFINs Indoor Air Comfort Gold certification which ensures that FP 140 meets the strictest European regulations regarding VOC emissions.

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

#### APPLICATION FIELDS

Use when applying the three-coats plastering technique, as finishing coat render (marble) on exterior surfaces previously roughcasted with SV 2 base-coat render. Ideal for protection from humidity (seafront houses, islands, mountainous – partly mountainous areas, etc.). It gives a white and smooth final surface ready for scrubbing and painting, due to the

nature and fine grading of Dionyssos marble content (< 1.2mm).

In combination with the fiber-reinforced adhesive-plaster FK 202, it can be used as a final coating of the external thermal insulation systems of buildings. In these cases, the premium synthetic mortar emulsion MARMOLINE MP 20 should be added.

#### CHARACTERISTICS/ ADVANTAGES

- High strength
- Excellent adhesion
- Moisture and frost-proof
- Indoor and outdoor use
- Easy to apply
- Excellent workability
- Water repellent
- Low permeability
- Smooth - White surface
- Prevents cracking
- Fast to prepare
- Stable quality

## PRODUCT INFORMATION

<b>Composition</b>	High-strength Portland cement (I - 52.5), fine aggregate from Dionysus white marble, slaked lime, and special additives
<b>Colour</b>	White
<b>Packaging</b>	<ul style="list-style-type: none"> <li>• 25 kg paper bag - 1500 kg pallet (60 paper bags)</li> <li>• 1000 kg Big Bag</li> <li>• In silos with a capacity of 12 – 18 – 22 m<sup>3</sup> with special application machines</li> </ul>
<b>Storage Conditions</b>	In the original, closed, sealed and indestructible packaging, protected from direct sunlight and frost and at temperatures from +5°C to +35°C
<b>Lifetime</b>	12 months from the date of production in unopened package

## TECHNICAL CHARACTERISTICS

<b>Grading</b>	0 - 1.2 mm	
<b>Specific gravity of wet mortar</b>	1850 Kg/m <sup>3</sup>	
<b>Compressive strength in 28 days</b>	4.05 MPa (CSII)	(EN 1015-11)
<b>Flexural strength in 28 days</b>	1.0 MPa	(EN 1015-11)
<b>Water absorption</b>	≤ 0.2 kg /m <sup>2</sup> .min <sup>0.5</sup> (W <sub>c2</sub> )	(EN 1015-18)

## APPLICATION INFORMATION

<b>Substrate temperature</b>	+5°C / +35°C
<b>Environmental temperature</b>	+5°C / +35°C
<b>Mixing ratio</b>	5 – 6 lt of water /bag of 25 kg
<b>Consumption</b>	Approx. 7 – 7.5 kg/m <sup>2</sup> for 0.5 cm thick plaster

## DIRECTIONS OF USE

### SUBSTRATE PREPARATION

The substrate must be firm, clean, dry and free from dust, loose particles and other materials. Apply after the base layer plaster SV 2 (or TL 2) and after it has completely dried (15 - 20 days in summer, more than 1 month in winter period). Before applying FP 140, the surface should be moistened.

### MIXING

Mix well, with a low-speed electric drill, a 25 kg bag with 5 - 6 liters of clean water. Leave the mixture for 5 - 10 minutes, to mature, and then stir again. Apply the plaster to the wall either with a trowel or with a machine.

Alternatively, mixing can be done either in a concrete mixer or in a pump.

### APPLICATION

Apply in a layer about 0.5 cm thick and spread with the forearm. Let the plaster set. For the final structuring of the surface, rub with a sandpaper, as is done with traditional materials.

For the next 2 – 3 days, especially in the summer, frequent wetting of the plaster is recommended to eliminate the possibility of cracking. Do not interrupt work on uniform surfaces to avoid the appearance of shadows. FP 140 Plaster can be coloured with natural

MARMOLINE POWDER COLOR pigments, following their instructions for use.

### TOOLS CLEANING

Fresh/wet material should be removed immediately from the application equipment with water. Hardened/cured material can only be removed mechanically.

### IMPORTANT NOTES

- Do not add excessive quantity of water for it may cause cracks and reduced strength
- Do not mix the material for too long. Use it within half an hour
- In case you use a pump, the hoses must be cleaned well after the end of the works
- Not recommended for use in extreme weather conditions (frost or heatwave)
- Application temperature +5oC to +35oC
- Do not exceed the maximum application thickness

### HEALTH, SAFETY & ENVIROMENTAL 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.


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.

## 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 do not are 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.

 12 DoP: 023 MARMO-CPR	
NORDIA A.E. 364 Kifissias Av., 15233 Chalandri, Athens, Greece	
EN 998-1:2016 MARMOLINE FP 140 General purpose cement plaster /render for internal or external use (GP/CSII/W <sub>c2</sub> )	
Reaction to fire:	Class A1
Capillary water absorption :	W <sub>c2</sub>
Water vapour diffusion coefficient:	μ = 15/35
Adhesion after weathering cycles :	0.6 N/mm <sup>2</sup> (FP <sub>b</sub> )
Thermal conductivity: (tab. mean value; P= 50%)	(λ <sub>10,dry</sub> ) 0.53 W/mK
Dangerous substances:	See product's SDS
Durability:	NPD

