

# CM 40

## Masonry mortar

EN 998-2  
M5

### DESCRIPTION

Cement based mortar for building various types of building materials. It has excellent workability and high adhesion capacity.

With EUROFINS Indoor Air Comfort Gold certification which ensures that the CM 40 meets the strictest European regulations regarding VOC emissions. The product is also accompanied by an Environmental Product Declaration (EPD) regarding the environmental impact during its life cycle (EPD registration number: S-P-09530).

### FIELDS OF APPLICATION

Use it to build bricks, large bricks, cement blocks and in general any kind of structural material on indoor and outdoor partitions of brickwork.

Use it also to lay paving stones and sets of stones. For internal and external use.

### CHARACTERISTICS/ADVANTAGES

- High strength
- Excellent adhesion
- Strong adhesion strength
- Moisture- and frost-proof
- Indoor and outdoor use
- Easy to apply
- Excellent workability
- Stable quality

## PRODUCT INFORMATION

<b>Composition</b>	Portland cement, aggregates of selected grain size, special additives and polymer components
<b>Appearance/Colour</b>	Grey powder
<b>Packaging</b>	25 kg paper bag – 1500 kg pallet (60 bags)
<b>Storage conditions</b>	Store in the original, closed, sealed packaging, protected from direct sunlight and frost and at temperatures from +5°C to +35°C
<b>Shelf life</b>	12 months from date of manufacture

## TECHNICAL CHARACTERISTICS

<b>Specific gravity of wet mortar:</b>	~ 2.00 kg/lit (+20°C)
<b>Grading:</b>	3 mm
<b>Compressive strength in 28 days:</b>	≥5 MPa (EN 1015-11)
<b>Flexural strength in 28 days:</b>	≥1.3 MPa (EN 1015-11)
<b>Shear bond strength:</b>	0.15 N/mm <sup>2</sup> (EN 998-2 – Annex C. Tabulated value)
<b>Workable life:</b>	~3.5 – 4 hours (EN 1015-9)

## APPLICATION INFORMATION

<b>Substrate temperature</b>	+5°C / +35°C
<b>Ambient temperature</b>	+5°C / +35°C
<b>Mixing ratio</b>	~ 3.4 lt water/ 25 kg bag
<b>Maximum application thickness</b>	10 mm
<b>Consumption</b>	Approx. 20 kg/m <sup>2</sup> for bricks with dimensions 6 x 9 x 19 cm

## DIRECTIONS OF USE

### MIXING

Mix with water by hand or using special mixers – pumps.

### APPLICATION

Apply the wet mortar using a trowel, in the same way as a traditional masonry mortar

### TOOLS CLEANING

Fresh material should be removed from the equipment with water immediately after application. Hardened/mature material can only be removed by mechanical means.

### 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

## COMPLIANCE WITH STANDARDS

CE marking and Declaration of Performance as M5 General purpose masonry mortar (G) according to EN 998-2.

## 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 .

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NORDIA SA 364 Kifissias Av., 15233 Chalandri, Athens, Greece	
EN 998-2:2016 MARMOLINE CM 40 General purpose masonry mortar (G)	
0654	
Compressive strength :	M5
Shear bond strength	0.15 N/mm <sup>2</sup>
Reaction to fire:	Class A1
Water absorption:	≤ 1.0 kg/m <sup>2</sup> min <sup>0.5</sup>
Water vapour permeability (μ)	15/35
Thermal conductivity:	0.63 W/mK (λ <sub>10,dry</sub> P=50%)
Chloride content:	≤ 0.1%
Workable life:	220 min
Durability	NPD
Dangerous substances:	See SDS
See detailed DoP in <a href="https://marmoline.gr">https://marmoline.gr</a>	