

## LM 400

#### WHITE ADHESION MORTAR FOR MARBLES AND GRANITES

Modern material used in a traditional way

**Description:** LM 400 is a ready white thick bed mortar, based

> on high-strength Portland white cement (I - 52.5), white marble aggregates and special additives to improve adhesion of marble and granite tiles and

boards to difficult surfaces.

**Usages:** A reliable solution for strong adhesions of marble

> and granite boards to floors, when a thick layer of mortar is needed. LM 400 Plus is especially suitable for white or light colored marbles, which are sensitive to stains coming from the substrate. It can be also used for other natural stones such as granite, sandstone, limestone, travertine, etc,

or artificial stone tiles and boards.

Add MARMOLINE MP 20 resin for further

adhesion strength and more flexibility.



**Advantages:** 

 Unique product for marble fixing • High strength • Water and frost resistant • Easy to apply - simply add water • Indoor and outdoor use • Its formula, based on white

cement, protects the colour of marbles.

Packaging: Bags of 25 kg.

Palette of 1500 kg, 60 paper bags

Storage: 12 months from the date of production in unopened package, in a dry place.

Safety This product contains cement and reacts as alkaline with moisture, so it is classified precautions: as irritant. It must be used with care according to the instructions for use. In order

to avoid any injuries due to alkalis of the cement, wear gloves, protective glasses

and avoid breathing the dust. Please consult the SDS of the product.

**Specifications:** EN 998-2:2016





# **ADVANCED BUILDING MATERIALS**



### **TECHNICAL DATA:**

Colour: Λευκό

**Grading:** 3 mm

Specific gravity of fresh mortar: 1800 Kg/m<sup>3</sup>

Compressive strength in 28 days: ≥10 MPa (EN 1015-11)

Flexural strength in 28 days: >2 MPa (EN 1015-11)

Adhesion strength 0,4 MPa

DoP: 265 MAR-CPR

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EN 998-2:2016

MARMOLINE LM 400

General purpose masonry mortar (G)

Compressive strength: M10

0.15 N/mm<sup>2</sup> Shear bond strength: Reaction to fire: Class A1

 $\leq$  0.5 kg/m<sup>2</sup> min<sup>0.5</sup> Water absorption:

Water vapour permeability (µ): 15/35

Thermal conductivity: 0.73 W/mK ( $\lambda_{10,dry}$  P=50%)

Chloride content: ≤ 0.1% Workable life: 130 min Durability: NPD Dangerous substances: see SDS

#### **APPLICATION:**

Mixing ratio: 3.1 - 3.8 lt /bag of 25 kg





## ADVANCED BUILDING MATERIALS



Consumption:

15 - 16 kg/m<sup>2</sup>, per 1 cm thick coat of fresh mortar

**Application mode:** 

- Check and prepare the application surface.
- Mix by means of a cement mixer or a special mixing machine, until a homogeneous, lump-free mixture is obtained.
- MARMOLINE LM 400 is applied in the same way as with traditional materials.
- For stones with adhesiveness problems, it is recommended to apply first on their surface the KM 100 adhesive.
- It is recommended to add MARMOLINE MP 20 resin to a ratio of 50% in the mixing water of the fresh mortar, as well as to wash thoroughly the marbles, granites or other stone boards before fixing them on clean MARMOLINE cement screed (GB 30 - GTL 30 - FLOW 200 - FLOW SL 500)
- The boards must be fixed within 10 minutes and before the fresh mortar skinsover
- Pay special attention when fixing white marbles, to avoid any stains coming from dirty mixing water, or wood, oils, coffee, cigarette butts, etc on the substrate
- On outside stairs and in courtyards, avoid the use of bricks behind or under marbles, because over time and due to humidity, the colour of the brick may pass through the marble

#### ATTENTION:

- 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 and cause cracks
- Not recommended for use in extreme weather conditions (frost or heatwave). Application temperature +5°C to +35°C

The above application guidelines are indicative, for the correct use of the product. For more technical details please contact the company's technical department.

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