



## DDL.LM STANDARD

Datasheet

101



### TECHNICAL DATA

#### DRY PRODUCT

Weight by package.....	25 kg
Dry bulk density (EN 1015-10).....	
.....	1300 to 1350 kg/m <sup>3</sup>
Conservation .....	12 months

#### PASTE PRODUCT

Mixing water .....	18 % ±2 %
Mixing time .....	3 to 5 minutes
Yield.....	13 to 16 kg/m <sup>2</sup> /cm
Work time .....	30 minutes
Drying time .....	3 weeks
Cure time .....	6 months

#### PERFORMANCE

Class (EN 998-1).....	GP
Compressive strength (EN 1015-11) .....	CS I
Flexural strength.....	0.29 N/mm <sup>2</sup>
Modulus of elasticity.....	≤ 3000 N/mm <sup>2</sup>
Adhesion (EN 1015-12).....	≥ 0.1 N/mm <sup>2</sup> - FP:B
Capillary water absorption (EN 1015-18) ....	W 0
Water vapour permeability coefficient (μ) (EN 1015-19).....	≤10 kg/m <sup>2</sup> .s.Pa
Thermal conductivity ( <sub>t=10,dry</sub> ) (EN 1745) .....	
.....	0.54 W/mK (tabulated value)
Reaction to fire (EN 13501).....	A1
Durability.....	
Varies according the conditions at the local of application	
Colour .....	Ivory

The indications and information are provided in good faith and reflect the last developments. DDL assures the consistent quality of the product and is not liable regarding its application. Previous tests are recommended to verify the suitability of the product to the substrate and the environmental conditions at the local of application.

Date ..... April 2017 (version 1)

### DESCRIPTION

**DDL.LM STANDARD** is a premixed, traditional dry mortar. It consists in slaked lime as binding and properly calibrated aggregates. The aggregates are siliceous of continuous granularity (< 4 mm) and other additives. It is an industrial mortar of general use (GP – CS I – W 0) for outdoor and indoor application. It is a plaster mortar for walls, columns, partitions and ceilings.

**DDL.LM STANDARD** has a suitable mechanical resistance, extended working time, high plasticity, no soluble or hydratable salts, good vapour permeability and low tendency to cracking. It can incorporate additives (natural aggregates, like cork, grinded ceramics, and clays; natural and synthetic fibres; and water repellents), transforming its characteristics according to the needs.

### APPLICABILITY

**DDL.LM STANDARD** is a coarse mortar suitable for use in buildings built up to 1920.

**DDL.LM STANDARD** can be applied in rehabilitation and restoration (stone, brick, and earth masonry), in interiors and facades.

### PREPARATION AND ENVIRONMENTAL CONDITIONS

Before applying **DDL.LM STANDARD** the substrate must be clean of all dust, dirt and paint by brushing or chiselling. Salts, grease and other contaminants must also be removed. After the cleaning, the substrate must be wetted with clean water on the previous day of the application. Before the application on highly absorbent materials, the wetting must be repeated. The application must not be done when the temperatures are above 25 °C, nor below 5 °C. The relative humidity must be below 80%. The application must not be done under strong wind. Until after 48 hours of the application, the mortar must not be exposed to rain, direct sunlight or frost.

### APPLICATION AND RECOMMENDATIONS

To prepare **DDL.LM STANDARD**, add 18 % (weight) of water. For every 25 kg of mortar add 4.5 litres of water. The mix must be done with a mechanical mixer, at low speed, from 3 to 5 minutes, until obtaining a homogeneous paste. Application must be done manually. The layers thickness must be 15 mm minimum and 30 mm maximum. Wait between 1 to 5 days between layers for each 10 mm of thickness. When it starts setting, smooth the surface with appropriate tools. After 12 hours tighten the mortar to make it more compact and increase its durability. It allows a smooth or textured finishing. Final layers, like painting, must be done after 3 weeks.

Edges and wedges will probably require the use of appropriate profiles. Dilatation joint of the substrate must be respected. If there are different materials in the system, the mortar must be reinforced with synthetic or natural nets. The nets must be incorporated in the outer side of the layer. If the substrate has soluble salts, wait until it stabilizes before applying the next layer.

Not wetting the substrate can cause cracking. Saturation is neither recommended. Too much mixing water makes the mortar prone to cracking and the decreases its mechanical characteristics and durability.

Equipment and tools must be washed with clean water. The product's pH is high; therefore, the materials must be protected from alkaline damages. Do not add any other products. Can be used with DDL.LM SLIM (plaster mortar).

### SAFETY, HEALTH AND STORAGE

Avoid contact with the eyes and skin. Use gloves and safety goggles. Keep away from children.

Keep the bag well sealed and in suitable place. Ensure the adequate transportation of the product. Keep the package in a safe place, do not use or store the product in extreme conditions of temperature, and keep it away from ice and humidity. Always keep in mind the applied legislations. For more information check the label and the safety data sheet.