**Description**

MALTA BIO 2 used as a “dual-action” natural mortar for bedding and connecting walls as a base plaster for internal/external surfaces in the ecological construction sector.

**Characteristics**

* Light walnut colour
* Pre-mixed product checked in our factory
* Product with CE label conforming to European Norms
* Contains silicate sand which makes the product easy to work with
* Good mechanical resistance to compression
* Excellent resistance to alkalis
* Good breathability
* Packaging can be re-cycled

**Composition**

Natural hydraulic lime NHL 3,5, pozzolanic binders, carbonate-silicate sand, fibre**.**

**Preparation of surfaces**

Eliminate any superfluous materials or those that have no consistency.

The surface must be clean, strong, exempt of oils, dust and dirt in general.

Moisten the surface with pure water until saturated in the case of high absorption or high temperatures.

Before applying MALTA BIO 2 check that it is compatible with the existing materials or with those to be applied.

We recommend checking the adhesion of the mortar to the surface.

Evaluate the application of a preliminary coat in particular cases (poor adhesion, uneven levels of absorption etc.).

**Preparation of mixture**

MALTA BIO 2 is ready to use and should be mixed with 3,8 ± 4,2, litres of water per 25 Kg sack.

Do not add any other ingredients to MALTA BIO 2.

Mix with a horizontal mixer with cochlea, cement mixer or by hand until a uniform mix has been obtained. Mixing time should not exceed 3 minutes.

Application should use material from one production batch, avoiding the use of the same material over a period of time to avoid colour differences.

**Application**

The temperature during application should be between + 5°C ÷ +35°C.

Proceed with application using a spatula and then straighten. Then proceed by roughening the surface with a sponge or trowel.

Wash tools with water after use.

**Packaging and storage**

The product is supplied in paper sacks of 25kg. Store in a cool, dry place, with no risk of freezing. Avoid exposure for long periods in direct sunlight. Once the polyethylene protection of the pallet is removed, protect the sacks from the rain.

The product stored in sacks remains perfectly unaltered for a period of 12 months providing it is stored in a dry place and in the original packaging.

**Health and safety regulations**

Ventilate during application.

Avoid contact with skin and eyes, in case of contact wash immediately with plenty of water.

Keep out of the reach of children.

As regards the evaluation of toxicological data, please see the safety data sheet.

**Disposal**

Dispose of the product according to local health and safety regulations. Empty containers must be recycled.

**Technical characteristics**

|  |  |  |
| --- | --- | --- |
| **Parameter** | **Measurement unit** | **Value** |
| Mass by volume (hardened mortar) | Kg / m³ | 1750 |
| Granulometry | mm | 0/2 |
| |  | | --- | | Consumption/Yield (depending on type of surface**)** |   - **Plaster**  - **Mortar for wall surfaces**  \* variable depending on type of surface | Kg / m² / cm  Kg / m² / mm  Sacs / m3 | **±** 17,0 \*  **±** 1,6-1,8 \*  65-67 |
| Resistance to initial cut | N / mm² | 0,15 |
| Resistance to compression (28 days)  - **Plaster**  - **Mortar for wall surfaces** | N / mm²  Category  Category | ≥5  CSIII  M5 |
| Adhesion | N / mm² | 0,3 |
| Water absorption | Kg/m² \* min0.5 | < 0,7  Cat.W0 |
| Thermal conductivity (tab.) | W / m.K | 0.79 ÷ 0.88 |
| Coefficient of water vapour dispersion (μ) | **-** | 9 |
| Reaction to fire | Category | A1 |

The results obtained are from laboratory tests (obtained at T=20°C ± 1°C and U.R.=65% ± 5%) and can differ from results obtained in the field for differing conditions of the mixture, method of application, in particular for exceeding the amount of water recommended for the mixture.

**Dolci Colori srl** reserves the right to make any changes to the present data sheet without prior warning.

Data: 11/11/19