

MasterCrete™ A 235

Hydraulic Lime (HL 3,5)

Material Description

MasterCrete™ A 235 is cement-free, hydraulic lime burnt at low temperatures (900°C) for lime mortar production.

EN 998/2

Areas of Application

MasterCrete™ A 235 is used in following cases as binder of lime mortar;

- Plastering production
- Building of masonry walls
- Building of masonry and natural stone joints

Characteristics and Benefits

- Cement free
- Burnt with traditional methods at low temperatures
- Can be used in production of different lime mortars compatible with existing building materials
- Does not affect the vapour and moisture permeability of the existing building

Processing Method

(A) Preparation of Substrate

The surfaces of historic masonry buildings to be repaired and plastered should be sound, dust-free and clean. The surface should be thoroughly cleaned

from all kinds of oil, grease, rust, etc. that will weaken adherence. The wall surface to be applied must be moistened beforehand to improve the adhesion and setting time of the mortar. If there is water leakage on the surface, it should be closed with a suitable plug and the water should be drained. There should be no free water on the surface to prevent adhesion.

(B) Mixing

Measure the ingredients specified in the mortar analysis and mix them in the required amounts. Add water and **MasterCrete™ A 235** in the amount specified in the mortar formula and continue mixing until a homogenous consistency is obtained.

(C) Processing

Fresh mortar should be applied to the prepared surface by using a trowel as mentioned application thickness in instructions. After the mortar finishes its first setting, some water should be sprayed onto the mortar and the surface should be finished with using steel or wooden trowel. For thicker applications first layer should be wetted after it hardens. Then the new layer application can be done. Open areas should be protected from the rain, wind, etc. Aggressive whether conditions during the first 24 - 48 hours after finishing repair by using wet clothes, curing membranes etc

Technical Properties

Structure of the Material	Hydraulic Lime
Color	Light Beige
Density	0,8 ± 0,08 kg/lt
Compressive Strength (EN 1015-11)	>3,5 N/mm ²
Water Vapour Permeability (EN 1745)	15/35 μ
Capillary Water Absorption (EN 1015-18)	≤ % 2,0 Kg/(m ² .min ^{0,5})
Application Temperature	+5°C + 40°C
Pot Life	55 minutes
Reaction to Fire (EN 13501-1)	A1

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Consumption

Depends on the mix design of lime mortar

Point to Consider

- During the application the substrate and environment temperature should be between 5°C - 40°C.
- For full curing of material, both the substrate and environment temperature shouldn't be under allowed application temperature.
- Open areas should be protected from the rain, wind, etc. aggressive weather conditions during the first 24 - 48 hours after finishing application.

Cleaning of Tools

All the tools and equipments must be cleaned by water after the application. After **MasterCrete™ A 235** is hardened, it can only be removed from the surface mechanically.

Packaging

MasterCrete™ A 235 is available in 15 kg kraft bag.

Shelf Life

12 months under proper storage conditions after production date.

Storage

Store in original container in cool (+5°C - +35°C) and dry indoor conditions.

Health and Safety

It is dangerous to approach the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water

and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children. For detailed information please consult the Material Safety Data Sheet.

Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is only responsible for the quality of the product **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

Contact

MBT Teknik Yapı Kimyasalları San. ve Tic. A.Ş.
Eyüp Sultan Mah. Sekmen Cad. Hayy 1000A
No:26/8 Sancaktepe, İstanbul
Tel: 0216 561 35 45 www.mbt-tech.tr