

MasterEmaco® N 275 TIX

Natural Hydraulic Lime Based Mortar Designed For Historical Masonry Buildings

DESCRIPTION OF PRODUCT

MasterEmaco® N 275 TIX is natural hydraulic lime based, cement-free, ready-pack mortar for restoration of historic buildings.

FIELDS OF APPLICATION

- Plastering the masonry walls in indoor and outdoor,
- Repair of lime based plasters,
- Repair of masonry and natural stone joints,
- Refilling of masonry walls.

FEATURES AND BENEFITS

- Cement free
- Shrinkage compensated
- Ready-pack
- It doesn't react with original building materials neither physically, nor chemically
- Does not affect the vapour and moisture permeability of the existing building
- Water-born salts (alkalis, sulphates, chlorides or nitrates), are limited

APPLICATION PROCEDURE


Preparation of Substrate

The surfaces should be free of frost, curing membranes, waterproofing treatments, oil stains, laitance, friable material and dust. The surfaces should be wetted before application. If there is a water leakage it must be drained or properly plugged.

Mixing

Add enough water into a clean mixing bucket by using a proper water gauge. Add the powder into the bucket slowly and continuously. Mix the fresh mortar with a proper electrical mixer (300-600 rpm) for 4 minutes until having a homogenous consistency. Let the mortar have rest for 4 minutes and re-mix for 30 seconds.

TECHNICAL DATA

Product Chemistry	Includes Natural Hydraulic Lime and Natural Fillers	
Color	From off-white to Brown	WK
Compressive Strength (20°C) TS EN 196 7 days	>15 kg/cm ²	
Grain Size	0-3 mm	
Mineral Fibers	Length: 6 mm	
Application Temperature	+5°C + 35°C	
Pot Life (20°C)	30 minutes	
Fully Cured at 20°C	7 days	

Mixing Ratio

MasterEmaco® N 275 TIX	1 kg Powder	20 kg Bag
Water Quantity	<0,19 liter	<3,8 liter
Mixed Density	~2,03 kg/liter	

APPLICATION METHOD

MasterEmaco® N 275 TIX should be applied to the prepared surface by using a steel trowel. Application thickness should be between 1-2 cm. 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. 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.

COVERAGE

17 kg/m² for obtaining 10 mm thick layer.

WATCH POINTS

- During the application the substrate and environment temperature should be between 5°C-35°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 whether conditions during the first 24-48 hours after finishing application.

CLEANING OF TOOLS

After the application all tools should be cleaned with water. **MasterEmaco® N 275 TIX** can be cleaned with only mechanical abrasion after hardening.

PACKAGING

20 kg bag

* Typical values are obtained from the test results of 4x4x16 mortar prism in 23°C and 50% relative humidity conditions. High temperatures shortens the curing and working time, lower temperatures extends the durations.

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STORAGE

Store in original container in cool (+5°C-+25°C) and dry indoor conditions.

SHELF LIFE

12 months under proper storage conditions after production date.

HEALTH AND SAFETY PRECAUTIONS

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 mixtures should not come into contact with skin and eyes; in case of 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. **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is only responsible for the quality of the product **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** 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 INFORMATION

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20 EN 998-1:2016 DOP NO: 04.998.1.002.1 MASTER EMACO N 275 TIX Doğal Hidrolik Kireç Esaslı, Tarihi Kargir Yapılar için Geliştirilmiş Hazır Sıva (Natural Hydraulic Lime Based Mortar Designed For Historical Masonry Buildings) GP (Genel Kullanım Sıva Sistemleri için) GP (General Purpose rendering/plastering system)	
Kuru Yiğün Yoğunluğu (Dry bulk density)	1450-1850 kg /m ³
Basınç Dayanımı (Compressive Strength)	CS I
Yapışma Dayanımı (Adhesion Strength)	≥ 0,1 N/mm ²
Kapiler Su Emme (Capillary water absorption)	W0
Su Buharı Geçirimsizlik Katsayısı (Water vapour permeability coefficient)	µ10
Isı İletkenlik Değeri (Thermal conductivity mean (λ10,dry mat) values)	(λ10,dry mat) 0,47 W/(m.K)
Yangına Tepki (Reaction to fire)	A1