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MasterEmaco® S 285 TIX

(Formerly known as Albaria® Struttura)

Puzolanic Lime Based, Repair Mortar Designed for Historical Masonry Buildings

Description of Product

MasterEmaco® S 285 TIX is puzolanic lime based, cement-free, high strength, thixotropic repair mortar for restoration of historical buildings.

Complies with EN 998/2 M15

Fields of Application

MasterEmaco® S 285 TIX is used in;

- Repair and strengthening of masonry walls
- Repair and strengthening of arches and vaults
- Repair of lime based plasters
- Strengthening of the masonry walls by using FRP bars in joints of masonry walls
- Repair and strengthening of foundations of

masonry structures

- Used as a cement-free concrete by adding aggregates in repair of masonry slabs, domes and walls

Features and Benefits

- Cement free
- High mechanical strength
- High bonding strength
- Water-born salts (alkalis, sulphates, chlorides or nitrates), are limited
- Ready-pack
- Does not affect the vapour and moisture permeability of the existing building
- Low capillary water absorption
- Efflorescence resistant

Technical Data

Product Chemistry	Includes Puzolanic Lime and Well Graded Natural Aggregate.	
Water Vapour Permeability EN 1745	$\mu < 35$	WK
Water-Born Salts UNI 11087	Electrical Conductivity $< 80\mu\text{S}\cdot\text{cm}^{-1}$ $\text{SO}_4 < \%1$ $\text{Na}^+ < \%0.05$ $\text{K}^+ < \%0.05$	
Capillary Water Absorption UNI EN 1015 / 18	$0.2 \text{ Kg}\cdot\text{m}^{-2}\cdot\text{min}^{-0.5}$	
Compressive Strength UNI EN 1015 / 11	15 - 20 N/mm ²	
Modulus of Elasticity UNI EN 13412	16,000 N/mm ²	
Application Temperature	+5°C - +40°C	



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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 (400-600 rpm) for 4 minutes until having a homogenous consistency. Let the mortar have rest for 4 minutes and re-mix for 30 seconds.

Mixing Ratio

MasterEmaco® S 285 TIX	1 kg Powder	20 kg Bag
Water Quantity	0.22-0.24 liter	4.4-4.8 liter
Mixed Density	2.07-2.10 kg/liter	

Application Method

MasterEmaco® S 285 TIX should be applied to the prepared surface by using trowel. Application thickness should be between 1-5 cm. After the mortar finishes its first setting, some water should be sprayed onto the mortar and the surface should be finished by using steel or wooden trowel. For thicker applications new layer of the mortar should be applied after first layer hardens. In multiple layer applications each layer should be wetted before the new layer. Cement-free concrete can be prepared by adding aggregates sized 5-20 mm and in a weight ratio

of 30-35% of the mortar in screed application. The water ratio can be increased up to 10-15% more.

Open areas should be protected from the rain, wind, etc. aggressive weather 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 5-40°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

After the application all tools should be cleaned with water. MasterEmaco® S 285 TIX can be cleaned with only mechanical abrasion after hardening.

Packaging

20 kg bag

Storage

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



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Shelf life

12 months under proper storage conditions after production date.

Health and Safety Precautions

It is dangerous to get close to the store areas with fire. The store must be well ventilated.

Work clothes, protective gloves, glasses and mask defined in Labour Laws must be used during the application. Avoid from material to contact with skin and eyes. In case of contacting wash your skin with water and go to doctor immediately.

Don't bring any food and drink to the application area. Store the material away from the children. For further information Material Safety Data Sheets should be read.

Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **BASF Türk Kimya Sanayi ve Tic. Ltd. Şti.** is only responsible for the quality of the product. **BASF Türk Kimya Sanayi ve Tic. 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 (01/2015).