

MasterEmaco® N 700

Reprofiling Mortar for Concrete Surfaces

DESCRIPTION OF PRODUCT

MasterEmaco® N 700 is cement based one component, polymer modified repair mortar for finishing the concrete surfaces.

Complies with EN 1504-3/R2

FIELDS OF APPLICATION

- Repair and finishing the concrete surfaces,
- Plastering the slabs and ceilings and repair of plasters,
- Repair of the defects on the concrete surfaces before coating (tile etc.) applications,

FEATURES AND BENEFITS


- Mixed with only water and can be applied easily.
- Provides smooth surfaces on concrete.
- Perfect bonding to the concrete substrates.
- Can be applied in wide areas without cracking.
- Thixotropic and can be used in overhead applications.
- Resistant to water and weather conditions.
- Resistant to freeze-thaw cycle.

APPLICATION PROCEDURE

Preparation of Substrate

The concrete surfaces must be sound, clean and dry. It shouldn't be weakened by over-troweling and lack of curing. The concrete should be free of frost, curing membranes, waterproofing treatments, oil stains, laitance, friable material and dust. If there is a water leakage it must be drained or properly plugged. Defects up to 4 cm depth should be repaired with **MasterEmaco® S 488** before starting to **MasterEmaco® N 700** applications. Concrete surfaces must be saturated with water before application.

TECHNICAL DATA

Product Chemistry	Mineral Fillers and Polymer Modified Cement	
Color	Grey	WK
Compressive Strength (20°C) (28 days) (TS EN 196)	>15 N/mm ²	
Flexural Strength (20°C) (28 days) (TS EN 196)	>3 N/mm ² (28 days)	
Bonding Strength (to concrete) (28 days)	>0,8 N/mm ²	
Application Thickness	Min. 1 mm Maks. 5 mm	
Application Temperature	+5°C + 60°C	
Pot Life (20°C)	30 minutes	
Fully Cured at (20°C)	28 days	

* 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.

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.

Mixing Ratio

MasterEmaco® N 700	1 kg powder	20 kg bag
Water Quantity	0,21 litre	4,20 litre
Mixed Density	1,802 kg/liter	

APPLICATION METHOD

MasterEmaco® N 700 should be applied to the prepared surface by using a steel trowel. Application thickness should be between 1-5 mm. 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 weather conditions during the first 24-48 hours after finishing repair by using wet clothes, curing membranes etc.

COVERAGE

1.51 kg/m² for obtaining 1mm thick layer.

WATCH POINTS

- Mixed mortar must be used in 30 minutes in 20°C. Working time will be 20 minutes in 30°C.
- Open areas should be protected from the rain, wind, etc. Aggressive weather conditions during the first 24-48 hours after finishing repair.
- Cement based materials' pot life and curing times vary depending on the relative humidity, substrate and environment temperature.
- Reaction gets slow in low temperatures and it causes to extension on pot life and working time. On the other hand high temperatures speed up the reaction, which

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results to short pot life and working time. For full curing of material, both the substrate and environment temperature shouldn't be under allowed application temperature.

CLEANING OF TOOLS

After the application all tools should be cleaned with water. MasterEmaco® N 700 can be cleaned with only mechanical abrasion after hardening.

PACKAGING

20 kg bag

STORAGE

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

SHELF LIFE

12months 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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1020 Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti. Adres: Barbaros Mah. Begonya Sok. Nidakule Kuzey Ataşehir, C Kapısı No:3 E/5, 34746 Ataşehir İstanbul 20 1020 – CPR – 040 065838 DOP NO: 02.1504.3.018	
EN 1504-3:2005 MasterEmaco N 700 Yapısal olan ve yapısal olmayan tamir (Structural and Non-Structural Repair Mortar) Sınıf R2 (Class R2) 1020 – CPR – 040 065838 DOP NO: 02.1504.3.018	
Basınç Dayanımı (Compressive Strength)	≥ 15 N/mm ²
Klorür içeriği (Chloride ion Content)	≤ % 0,05
Adezyon Dayanımı (Adhesive bond)	≥ 0,8 N/mm ²
Kontrollü Büzülme / Genleşme (Restrained shrinkage/expansion)	≥ 0,8 N/mm ²
Yangına tepki (Reaction to fire)	A1
Tehlikeli maddeler (Dangerous substances)	Madde 5.4'e uygun