

# MasterEmaco® P 300

## Anti-Corrosion Coating and Primer

### DESCRIPTION OF PRODUCT

**MasterEmaco® P 300**, is cement based one component, polymer modified, anti-corrosion coating and primer.

### FIELDS OF APPLICATION

- Corrosion protection of the reinforcement,
- Priming the concrete substrates prior to repair mortar applications.

### FEATURES AND BENEFITS

- Mixed with only water and can be applied easily.
- Perfect bonding to the concrete and steel.
- High mechanical strengths.
- Protects the reinforcement against humid.

### APPLICATION PROCEDURE

#### Preparation of Substrate

##### Concrete Surfaces

All loose traces of concrete or mortar, dust, grease, oil etc. Must be removed and the surfaces should be roughed. The concrete surfaces should be strong and damped before application.


##### Steel Surfaces

Any of paint, oil, concrete traces and rust of the steel should be cleaned with sand blasting or wire brushes. If exists, water leakages should be drained or 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	Mineral Fillers, Corrosion Inhibitors and Polymer Modified Cement	
Color	Grey	<b>WK</b>
Compressive Strength (28 days) TS EN 196	>30 N/mm <sup>2</sup>	
Bonding Strength (7 days) To Concrete To Steel	>1,5 N/mm <sup>2</sup> >1,0 N/mm <sup>2</sup>	
Application Temperature	+5°C + 30°C	
Pot Life	60 minutes (20°C)	
Fully Cured at 20°C	28 days (20°C)	

\* 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 Ratio

MasterEmaco® P 300	1 kg powder	20 kg Bag
Water Quantity	< 0,3 liters	< 6,0 liters
Mixed Density	~2,0 kg/lt	

### APPLICATION METHOD

As a primer on concrete substrates the mortar should be applied to the whole surface by using a proper brush at a maximum thickness of 1 mm. On poor concretes the primer should be applied in two coats and the second coat can be applied after the first coat dries. The repair mortar should be applied 30 minutes after finishing the primer application.

As a corrosion protective coating on reinforcement Apply the mortar to the full circumference of the prepared reinforcement using a soft paint brush. A film thickness of approx. 2mm should be build up in two coats, allowing 3-4 hours to harden between coats at 23°C and longer at cooler temperatures. Allow **MasterEmaco® P 300** to cure for 30 minutes before applying the repair mortar.

### COVERAGE

1.55 kg/lt

### SARFIYAT

1 litre harç için yaklaşık 1,55 kg toz üründür.

### WATCH POINTS

- **MasterEmaco® P 300** should be applied in 60 minutes in 20°C.
- 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 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.

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### CLEANING OF TOOLS

After the application all tools should be cleaned with water. **MasterEmaco® P 300** 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

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 irritaion 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 kep out of reach of children. For detailed information please colsuit the Material Safety Data Sheet.

### DISCLAIMER

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### CONTACT INFORMATION

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**MasterEmaco® P 300** Technical Data Sheet -Revision  
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<b>MasterEmaco P 300</b> <b>Beton Yapıların Korunması ve Tamiri için Mamüller ve Sistemler</b> <b>(Products and Systems for the Protection and Repair of Concrete Structures)</b> <b>Bölüm 7: Donatının Korozyona Karşı Korunması</b> <b>(Part 7: Reinforcement Corrosion Protection)</b> <b>11.1 Aktif Kaplama</b> <b>(11.1 Active Coating)</b>	
Korozyona Karşı Koruma (Corrosion protection)	Uygun (Pass)
Yangına tepki (Reaction to fire)	A1
Tehlikeli maddeler (Dangerous substances)	Madde 5.3 'e uygun (Comply with 5.3)