

# MasterEmaco® N 735 BP

## Epoxy Modified Cement Based, Surface Finishing and Repair Mortar

### DESCRIPTION

MasterEmaco® N 735 BP, is epoxy modified cement based, surface finishing and repair mortar with three components.

### FIELDS OF APPLICATION

- Protection of concrete elements in marine structures over sea,
- Providing sound and waterproof layer on concrete surfaces under epoxy insulation systems in purification plants,
- Providing sound and waterproof layer on concrete surfaces under epoxy and PU coatings in industrial plants,
- As a fine repair mortar on stone and cement based substrates with a thickness of 0.5-3.0 mm,
- Repair and insulation mortar on concrete substrates under aggressive chemical effects,
- Protecting the concrete elements against weather conditions in marine structures based over the sea.

### FEATURES AND BENEFITS

- Excellent adhesion to damp surfaces (there should not be any bleed water on the surface).
- Can be covered with epoxy based coverings within few days.
- Doesn't need to primer.
- Waterproof.
- High resistance to frost and thawing.
- Solvent free.

### APPLICATION PROCEDURE

#### Surface Preparation

The concrete surfaces must be sound and clean. 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. In hot weather, surfaces can be damped before application.

#### Mixing

MasterEmaco® N 735 BP has three components in pails and bag, produced according to right mixing ratio. Material temperature should be between 15- 25°C before mixing. Component A and Component B should be added into a clean mixing bucket and mixed with using a proper mixer (~300rpm). Mix the components at least 2 minutes to have a homogenous mixture. Then add Component C to the mixture and mix at least 3 minutes to have a homogenous mixture.


#### Karışım Oranları

MasterEmaco® N 735 BP	Comp. A	Comp. B	Comp. C
Quantity	1,30 kg	2,30 kg	17,00 kg
Mixed Density	2,00 kg/liter		

#### Application

MasterEmaco® N 735 BP should be applied to the prepared surface by using a steel spatula or steel trowel. Application thickness should be between 0.5-3.0 mm. If the application surface is small enough, the maximum application thickness can be 5 mm. For setting flatter surfaces, steel trowel or sponge can be used. After application, surfaces should be protected from atmospheric effects like as rain etc.

### TECHNICAL DATA

Product Chemistry	Contains Mineral Fillers, Polymers and Epoxy Modified Cement	
Color	Grey	<b>MK</b>
Mixed Density	2,00 kg/liter	
*Compressive Strength (20°C) (28 days) TS EN 196	>25 N/mm <sup>2</sup>	
Bonding Strength (to concrete) (28 days)	>1,5 N/mm <sup>2</sup>	
Application Thickness	Min. 0,5 mm Max. 3,0 mm	
Pot Life 20°C	30 minutes	
Time to Cover-up	18-24 hours	
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.

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### COVERAGE

2.0 kg/m<sup>2</sup> for obtaining 1mm thick layer.

### WATCH POINTS

- During the application the substrate and environment temperature should be between 5- 35°C.
- Resinous 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.
- **MasterEmaco® N 735 BP** is provided in ready to mix pails and bag. Do not add any solvent, water etc. into the mixture during the application.
- Mixing should be made with proper mixers and do not allow mixing by hand.

### CLEANING OF TOOLS

After the application all tools should be cleaned with a proper detergent or solvent such as thinner. **MasterEmaco® N 735 BP** can be cleaned with only mechanical abrasion after hardening.

### PACKAGING

20,60 kg set  
Component A: 1.3 kg pail  
Component B: 2.3 kg pail  
Component C: 17.0 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 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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**MasterEmaco® N 735 BP** Technical Data Sheet -  
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EN 1504-3:2005 MasterEmaco N 735 BP Yapısal olan ve yapısal olmayan tamir (Structural and Non-Structural Repair Mortar) Sınıf R2 (Class R2) 3.1 Elle harç uygulaması (Concrete restoration by applying mortar by hand) 3.3 Püskürtme harcı veya beton (Concrete restoration by spraying mortar or concrete)	
Basınç Dayanımı (Compressive Strength)	≥ 15 N/mm <sup>2</sup>
Klorür içeriği (Chloride ion Content)	≤ % 0,05
Adezyon Dayanımı (Adhesive bond)	≥ 0.8 N/mm <sup>2</sup>
Kontrollü Büzülme / Genleşme (Restrained shrinkage/expansion )	≥ 0.8 N/mm <sup>2</sup>
Karbonatlaşmaya Direnç (Carbonation Resistance)	NPD
Yangına tepki (Reaction to fire)	B
Tehlikeli maddeler (Dangerous substances)	Madde 5.4'e uygun (Comply with clause 5.4)