



T704 / 0900.ENG

# KÖSTER® Repamor

Cementitious, polymer and fiber modified repair mortar

## Product Description:

Turkish product name > KÖSTER Repamor

KÖSTER Repamor is a factory blended, polymer and fiber modified, cement based repair mortar.

It can be used for both interior and exterior applications. It is highly resistant to thermal variations and outdoor conditions.

KÖSTER Repamor has strong adhesion to mineral based surfaces like concrete, mortar and similar and does not crack or peel even at high application thicknesses.



## Applications:

KÖSTER Repamor is used for;

- Structural concrete repairs
- Preparing mineral based surfaces for waterproofing applications
- Forming of fillets
- Repairing and filling of honeycombs and surface imperfections etc

## Technical Data:

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| Compressive strength (28 days) EN 196-1 | 55-60 N / mm <sup>2</sup>                |
| Tensile strength (28 days) EN 196-1     | 8,5 N / mm <sup>2</sup>                  |
| Adherence (concrete)                    | > 2 N / mm <sup>2</sup>                  |
| Curing period                           | app. 24 hours (+ 20 °C ve % 50 moisture) |
| ASTM C 827                              | +                                        |
| CountinHo ring test                     | +                                        |
| Permeability test                       | +                                        |
| Mixing ration                           | 0,18 lt water / kg powder                |
| Application temperature                 | +5°C to +30°C                            |
| Density of fresh mortar                 | 2,13 g / cm <sup>3</sup>                 |
| Bulk density                            | TS EN 6433 1,24 kg / dm <sup>3</sup>     |

## Advantages:

- Cement based ready – mix ; just add water
- Tixotropic but soft consistency, easy to mix and apply
- Suitable for vertical and overhead applications
- Long open time allows working at elevated temperatures
- High mechanical strength

## Properties:

**Working time** – After mixing, the working time of KÖSTER Repamor mixture is approximately 20 minutes, depending on ambient weather conditions.

**Drying time** –Drying of the KÖSTER Repamor is dependent on the air temperature and relative humidity. Under average drying conditions (20 °C and 50 % R.H.), protect work from rain for at least 12 - 24 hours.



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**Water Vapor Transmission** - KÖSTER Repamor is permeable to water vapor.

**Bond Strength** - High bond strength to mineral or metal surfaces.

### **Instructions:**

**Job conditions** - Air and substrate temperatures must be 5 °C or higher and must remain so for a minimum of 24 hours.

**Surface preparations** - Dry surfaces must be premoistured.

The surface has to be sound and solid, free of laitance, paint, dust, form oil and other contaminants that might affect the bonding adversely. Suitable tools are wire brushes, high-pressure water jets, sand and shot blasting. Cracks and surface honeycombs should be chiselled open so that application of an even uniform coat can be achieved. Smaller honeycombs, cracks and depressions should be filled with KÖSTER Repamor and be allowed to dry for 24 hours before commencing.

**Mixing** - One bag ( 25 kg ) of KÖSTER Repamor should be mixed with 5,0 – 5,5 lt of clean water.

The powder should always be added to the water slowly and during continuous mixing action with power mixer equipped with mixing paddle.

**Application** - Apply the mixed mortar to the entire surface of the surface and press down firmly with a trowel or spatula. As soon as the mortar has started to set it may be rubbed down with a plastic trowel or polyurethane sponge.

### **Consumption :**

KÖSTER Repamor                      app.                      1,80 kg / lt

Note: For 1 mm thickness, a consumption of approximately 1,80 kg / m<sup>2</sup> should be foreseen.

### **Packaging:**

KÖSTER Repamor                      25 kg bag



### **Cleaning of Tools:**

Clean tools with water while KÖSTER Repamor is still wet.

### **Notes:**

- Do not apply below 5 °C or if temperatures below 5 °C are expected within 24 hours.
- Do not apply on wet or frozen surfaces
- Do not apply on dusting or weak surfaces. If in doubt, perform adhesion test.
- Cold temperatures lengthen and hot temperatures shorten pot life and curing time of mixed material.

### **Storage:**

Dry and cool, in original containers.

### **Shelf Life:**

12 months.

### **Caution:**

Contains cement. Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye / face protection. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. For additional references to safety-hazard warnings, regulations regarding the transport and waste management please refer to the relevant Material Safety Data Sheet.

|                                                                                                                                                                                               |                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| <br>1020                                                                                                     |                           |
| <b>KÖSTER YAPI KİMYASALLARI İNŞ. SAN. ve TİC. A.Ş.</b><br><b>GEBKİM Kimya İhtisas OSB Atatürk Bulvarı</b><br><b>No: 6 41455 DİLOVASI / KOCAELİ</b><br>16                                      |                           |
| <b>1020 - CPR - 040 051990 / DOP NO: 038</b><br>EN 1504-3<br><b>KÖSTER Repamor</b><br>Cementitious, polymer and fiber modified repair mortar<br>Coating application (PI) 3.1/4.4/7.2/Sınıf R3 |                           |
| Compressive Strength                                                                                                                                                                          | ≥ 25 N/mm <sup>2</sup>    |
| Chloride Ion Content                                                                                                                                                                          | ≤ %0,05                   |
| Bond formed with adhesion                                                                                                                                                                     | ≥ 1,5 N/mm <sup>2</sup>   |
| Limited Shrinkage / Expansion                                                                                                                                                                 | ≥ 1,5 N/mm <sup>2</sup>   |
| Resistance to Carbonation                                                                                                                                                                     | 6,0 mm                    |
| Elasticity Module                                                                                                                                                                             | ≥ 15GPa                   |
| Response to Fire                                                                                                                                                                              | A1                        |
| Dangerous Materials                                                                                                                                                                           | Materials 5.4 appropriate |

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