

T 704 / 0907.ENG

KÖSTER® EP Mortar

Epoxy based screed, patching and repair mortar (2 component)

- İTÜ, İstanbul Teknik Üniversitesi İnşaat Fakültesi Test Raporu No 761/21.07.2004
- İTÜ, İstanbul Teknik Üniversitesi İnşaat Fakültesi Test raporu No 390b/17.04.2007

Product Description:

Turkish product name > KÖSTER EP Mortar

KÖSTER EP Mortar is a epoxy based, solvent free, 2 component screed, patching and repair mortar.

The material can be used as a floor coating screed. Also partial repair or patching of industrial coatings is possible.

The material is sand colored as standart and can be tinted with suitable pigments.



Applications:

- As a floor coating screed
- As a repair mortar for concrete surfaces like industrial floor, loading areas, dilatation joints etc
- As a bedding or underfilling mortar

Technical Data:

Compressiv	e strength	(28 days) I	EN 196-1 <i>6</i>	50-70 N / mm²
Tensile stre	ngth	(28 days)	EN 196-1	28,0 N / mm ²
Adherence	(concrete	surface)	(14 days)	4,0 N / mm ²
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Density		1,90 g / cm ³
View		sand color grout
Pot life	(20 °C - 1 lt)	app. 40 minute
Curing periyod (+ 20	⁰ C ve % 50 moistu	re) app. 24 hour
Final mechanical and	l chemical values rea	ach after 7 days
Application temperat	ture	min. + 5 °C
Mixing ration (weight	t)	20:1 - A:B
Color		yellow sand

Characteristics:

- Tough hard, resistant to impact
- High mechanical strength
- High abrasion resistance
- Physiological harmless after curing
- Solvent free
- · Shrinkage free curing

Instructions:

Surface preparation:

Surfaces must be clean, sound and dry. Dust, oil, grease, old coatings, laitance, efflorence, rust, curing compounds, waxes, form oil and similar contaminations should be cleaned or removed prior to application.

Surfaces must be prepared by mechanical means e.g. Blastrac shot blasting.

Minimum requirements

- Free of cement laitance, dust, oil, fat and other contaminants
- Open textured, absorbent surface
- Pull of strength min 1,5 N/mm2
- Concrete residual moisture max. 4%



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Do not apply on concrete surfaces with rising damp conditions or take appropriate measures before application.

Application of Primer:

Depending on substrate conditions the surface must be prepared non-porous by applying a primer coat with KÖSTER KB-Pox LF-BM or KÖSTER KB-Pox 002, which must be lightly sprinkled with clean, dry quartz sand. Application of KÖSTER EP Mortar must follow while the primer surface is still tacky.

Preparation of Mixture:

Condition material to room temperature. Premix A and B components. Add B component to A component and mix until uniform in color. Transfer mixture to clean container and mix again for at least 1 minute.

Mixing should be done with low speed drill and mixing paddle.

Application of KÖSTER EP Mortar:

Whilst the primer is still tacky, spread KÖSTER EP Mortar evenly and trowel down firmly with a trowel or spatula. Clean the trowel or spatula regularly with KÖSTER Thinner No.1 to prevent mortar sticking to the trowel.

Prior to, during and after the application the temperature of the substrate must be at least +3°C above the current dew point temperature.

Top coat for KÖSTER EP Mortar:

If desired to surface of KÖSTER EP Mortar can be painted after curing. Suitable products are KÖSTER KB-Pox LF-VS and KÖSTER KB-Pox 082. Consumption > 100-300gr/m2.

Consumption:

For every mm thickness

 $2,00 \text{ kg}/\text{m}^2$

Packaging:

KÖSTER EP Mortar

25 kg SET



Cleaning of Tools:

Clean epoxy with KÖSTER Thinner No.1 while still wet. Cured material can only be removed mechanically.

Notes:

- Do not apply below +8⁰C or if temperatures below +5⁰C 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 the mixed material.
- High levels of humidity might prevent proper curing of epoxy adhesive.
- Do not add solvents or thinners.
- Do not apply on concrete which is fresher than 3-4 weeks.

Storage:

Store in dry conditions and at room temperatures, in original containers.

Shelf Life:

12 months.

Health and Safety:

Avoid inhaling the vapours and contact with skin. Wear suitable protective clothing, gloves and eye / face protection. Adequate ventilation of the working area is recommended. 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. When using do not eat, drink, smoke and keep away from sources of



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ignition. For additional references to safetyhazard warnings, regulations regarding the transport and waste management please refer to the relevant Material Safety Data Sheet.

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Coating application (PI) 3.1	/4.4/7.1/7.2 Smif R2
Coating application (PI) 3.1 Compressive Strength	/4.4/7.1/7.2 Smf R2 ≥ 15 N/mm ²
Coating application (PI) 3.1 Compressive Strength Chloride Ion Content	/4.4/7.1/7.2 Smf R2 ≥ 15 N/mm ² ≤ %0,05
Coating application (PI) 3.1 Compressive Strength Chloride Ion Content Bond formed with adhesion	/4.4/7.1/7.2 Smrf R2 ≥ 15 N/mm ² ≤ %0,05 ≥ 0,8 N/mm ²
Coating application (PI) 3.1 Compressive Strength Chloride Ion Content Bond formed with adhesion Limited Shrinkage / Expansion	/4.4/7.1/7.2 Sml R2 ≥ 15 N/mm ² ≤ %0,05 ≥ 0,8 N/mm ² ≥ 0,8 N/mm ²

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