

T 704 / 0907.ENG

KÖSTER Adepox

Epoxy bonding agent for old-to-new concrete

Product Description:

Turkish product name > KÖSTER Adepox

KÖSTER Adepox is a two component, epoxy based, solvent free, factory blended and modified resin / hardener system.

It is used with the purpose of providing good adherence of new concrete layers to old concrete surfaces. Also repair mortar, patching mortar or screed layers can be bonded to old concrete, terazzo or similar surfaces.



Applications:

- Bonding fresh concrete layers to old concrete
- as an adhesive between old concrete surfaces and concrete-screed-plaster-repair mortar-mosaic etc
- Can be applied on vertical and horizontal surfaces.
- Can be used indoors and outdoors.

Technical Data:

Viscosity (+20°C) 700 - 800 mPa.s

Density (in mixture) app. 1,22 g / cm³

Pot life (+20°C / 1 lt) 40 minute

Curing time (+23°C and % 50 moisture) 24 hours

Final chemical and physical values are reached at the end of 7 days.

Compression strength (28 days) EN 196-1 63,0 N / mm²

Bending strength (28 days) EN 196-1 22,0 N / mm²

Application temperature min. +10°C

Adherence (concrete) > 1,5 N / mm²

Mixing ratio 2 : 1 - A : B (weight)

Color transparent green

Instructions:

Surface Preparation:

The surfaces to be applied must be dry or slightly damp. Do not apply on wet and frozen surfaces.

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

Cracks and holes should be scraped to a depth of 2 cm before application.

It is good practice to roughen the old concrete surface to increase adhesion. Preparation can be done by mechanical means e.g. shot blasting or milling.

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. To avoid mixing errors transfer mixture to clean container and mix again for at least 1 minute.

Mixing should be done with low speed motor mixer and mixer tip.

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If the mixture is to be made by hand it is advisable to prepare the mixture in smaller batches.

KÖSTER Adepox Application:

Apply the mixture to the prepared old concrete surfaces with a hard brush. Do not apply less than the specified consumption.

After application of the epoxy bonding agent but just before the pouring of the fresh concrete there should be a wet epoxy layer on the old concrete surface.

Immediately pour the new concrete onto the fresh epoxy bonding agent (wet-in-wet).

Note : If the epoxy bonding layers cures and turns into a glassy surface before pouring the new concrete it will not act as a bonding agent. In this case reapply a fresh coat of epoxy bonding agent and immediately pour the fresh concrete.

Consumption:

0,6-1,0 kg/m² (depending on the absorptivity of the old concrete)

Packaging:

KÖSTER Adepox 15 kg SET



Cleaning of Tools:

Immediately after application with KÖSTER Thinner No1.

Notes:

Do not apply below +8°C or if temperatures below +5°C are expected within 24 hours.

Do not apply on wet or frozen surfaces.

Storage:

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


Shelf life:

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

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KÖSTER YAPI KİMYASALLARI İNŞAAT SAN. VE TİC. A.Ş. Kocaeli Gebze V GEBKİM Kimya İhtisas OSB, Atatürk Bulvarı No: 6 Dilovası 41455 KOCAELİ 16	
2184- CPR – 0198 DOP NO: 030 EN 1504-3:2005 KÖSTER – Adepox Epoksi esaslı, eski-yeni beton yapıştırıcısı Kaplama uygulaması (P)3.2/7.1/7.2/ Sınıf R3	
Basınç dayanımı (EN 12190)	≥ 45N/mm2
Klorür iyonu içeriği (EN 1015-17)	≤ % 0,05
Yapışma suretiyle oluşmuş bağ (EN 1542)	≥ 1,5 N/mm2
Sınırlanmış büzülme/genleşme (EN 12617-4)	≥ 3,4 N/mm2
Karbonatlaşmaya direnç (EN 13295)	Uygun
Elastisite modülü (EN 13412)	≥ 15 GPa
Yangına Karşı Tepki (EN 13501-1)	E
Tehlikeli Maddeler	Madde 5.4'e uygun

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