

KÖSTER® Bond Paste RS

Epoxy based, 3 component castable grout

- **Official Test Certificate, İTÜ, Istanbul Technical University** – Test Report of the Faculty of Construction
No 390a/17.04.2007

Product Description:

Turkish brand name > KÖSTER Bond Paste RS

KÖSTER Bond Paste is a 3 component, epoxy based, castable grout.

The material is flowable and self leveling, solvent free and 100 % solids. KÖSTER Bond Paste RS has very high mechanical strength and is rapid curing with high early strength development.

The material has high adhesion strength to concrete, mortar and metal. The cured material is resistant to water, diluted acids and alkalines, salt water, gasoline and mineral oils.



Advantages:

- Rapid curing
- Solvent free, shrinkage free
- Flowable, even in thinner films
- Very high mechanical strength

Technical Data:

Compressive strength (14 days) EN 196-1 110 N / mm²

Flexural strength (14 days) EN 196-1 31,0 N / mm²

Adherence (concrete surface) (14 days) 4,12 N / mm²

Pot life app. 40 minutes (+23°C / 1 lt)

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

Density 2,20 gr / cm³

Application temperature min. +8°C / max. +30°C

Color A component yellowish transparent

Color B component transparent

Color C component grey

Consistency mixture fluid

Consistency A component fluid liquid

Consistency B component fluid liquid

Consistency C component powder

Applications:

- Structural bonding of anchors, starter bars, supports, braces, tie bars and similar
- Grouting of crash barrier posts, machine bases, mechanical bridge joints, bridge bearings and bearing plates
- Tie less rail grouting of crane rails, in tunnels and on bridges

Instructions:

Surface Preparation:

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

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Concrete Surfaces: Sand - or shotblast or use other approved mechanical methods to guarantee maximum adhesion of epoxy adhesive.

Metal Surfaces: Must be cleaned to SA 2 ½ standart.

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. Slowly add C component and continue mixing until uniform color is obtained. Prior to application the mixture should be let to rest for a short period to allow the bubbles to escape. Mixing should be done with low speed drill and mixing paddle.

Application of KÖSTER Bond Paste RS

The mixed material should be poured within the pot life of the material. Do not use material that has started to gel.

Thicker layers should be casted in layers to allow the material to cool down (the material has a strong exothermic reaction – heat is generated) as high temperatures may result in lower mechanical values.

When casting under wide plates the material should be poured from on side only and air pockets should be prevented.

Consumption:

KÖSTER Bond Paste RS _____ 2,20 kg / Lt void

Packaging:

KÖSTER Bond Paste RS _____ 27 kg SET



Cleaning of Tools:

Clean epoxy material with a suitable epoxy thinner or solvent (KÖSTER Thinner No1) while still wet. Cured material can only be removed mechanically.

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
- 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 epoxy adhesive.
- High levels of humidity might prevent proper curing of epoxy adhesive.
- Do not add solvents, thinners or additional fillers.
- If in doubt perform adhesion test before application.
- 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:

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 İNŞ. SAN. ve TİC. A.Ş. GEBKİM Kimya İhtisas OSB Atatürk Bulvarı No: 6 41455 DİLOVASI / KOCAELİ 16	
DOP NO: 037 EN 1504-6 KÖSTER Bond Paste RS Epoxy based, 3 component castable grout Coating application	
Pull-off Resistance	0,85 mm
Chloride Ion Content	% 0,003
Glass Transition Temperature	≥ 60°C
Response to Fire	D, s2, d0
Dangerous Materials	Materials 5.3 appropriate

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