

KÖSTER 21

Technical guideline Article number **3.03015**
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White, 2 component, solvent free, multiple use crack bridging waterproofing, resistant to pressurized water, oil resistant

Features

KÖSTER 21 is a 2 component, solvent-free, liquid applied, elastic, crack bridging waterproofing material with excellent adhesion to dry and moist substrates. It is liquid applied and therefore seamless, which greatly eases application to complicated architectural details.

Due to its UV stability it is suitable for indoor and outdoor use.

The white color reflects sunlight and reduces building surface temperatures. The fast curing coating is highly flexible, resistant to occasional foot traffic, aging, hydrolysis, UV-rays, frost, and salt.

KÖSTER 21 seals against synthetic oils and aliphatic hydrocarbons with high boiling points (up to 2 bar).

KÖSTER 21 is not resistant against substances with high aromatic hydrocarbon contents such as benzene, xylene, toluene, etc. In case of questions contact our technical support team.

KÖSTER 21 does not contain volatile organic compounds (VOC content = 0), is free of polyurethanes, isocyanates, and bitumen.

Technical data

Color	white
Consistency	pasty
Mixing ratio (by weight)	2: 3 (A : B)
Application temperature	+ 5 °C to + 35 °C
Substrate temperature	min. + 5 °C
Pot life (1 kg of mixed material) at + 23 °C	45 min.
Thickness per layer	0.5 mm – 2.0 mm
Crack bridging (with KÖSTER Flex Fabric)	0.4 mm
Density	1.55 g / cm ³

Final mechanical strength and chemical resistance is reached after 7 days (at + 23 °C and 65 % rel. humidity).

Fields of application

KÖSTER 21 is a waterproofing material for the positive side waterproofing of basements, concrete slabs, in tanks, on flat roofs, underneath tiles, on terraces or balconies, and similar applications.

KÖSTER 21 is also suitable as a protective coating against mineral oils and aliphatic hydrocarbons.

KÖSTER 21 is suitable for the protection of surfaces in facilities with chemical and mechanical demands on the coatings, such as containment and skimming tanks. KÖSTER 21 bonds well to a wide variety of substrates, including: masonry, concrete, screed, PVC, metal, and bitumen.

Substrate preparation

The substrate can be dry or moist, (no puddling water), and must be free of loose particles or other bond inhibiting substances. Soiled substrates must be cleaned down to a solid layer. Clean off dust completely. On interior corners, install a fillet made of KÖSTER Repair Mortar Plus approx. 24 hours prior to the application of KÖSTER 21. Exterior corners must be broken and rounded.

Application

The powder component is slowly added into to the liquid component while mixing it with a slowly rotating electrical mixer (below 400 rpm) so that a lump free, homogenous consistency is achieved. Up to 1.6 liters of water can be added to each 20 kg combi-package to achieve a brushable or sprayable consistency. Use only clean and potable water. Mixing time is a minimum of 3 minutes.

KÖSTER 21 is applied with a brush, roller, trowel, or other customary mason's tools. The material can also be spray applied. We recommend using the KÖSTER Peristaltic Pump.

KÖSTER 21 is applied in two coats. The waiting time before application of the second coat depends on the load of conditions of the waterproofed area:

- min. 3 hours without foot traffic (e.g. vertical areas)
- 24 hours before walking on the first layer

On areas which are likely to crack, or at intersections (e.g. wall floor junctions), embed KÖSTER Flex Fabric into the fresh first layer. Roofs and balconies are always completely reinforced. The

The information contained in this technical data sheet is based on the results of our research and on our practical experience in the field. All given test data are average values which have been obtained under defined conditions. The proper and thereby effective and successful application of our products is not subject to our control. The installer is responsible for the correct application under consideration of the specific conditions of the construction site and for the final results of the construction process. This may require adjustments to the recommendations given here for standard cases. Specifications made by our employees or representatives which exceed the specifications contained in this technical guideline require written confirmation. The valid standards for testing and installation, technical guidelines, and acknowledged rules of technology have to be adhered to at all times. The warranty can and is therefore only applied to the quality of our products within the scope of our terms and conditions, not however, for their effective and successful application. This guideline has been technically revised; all previous versions are invalid.

KÖSTER Flex Fabric

Technical guideline / Article no.

11.05

Issued: February 27, 2013

Plastic fabric for reinforcing thin-layer waterproofing

Properties

KÖSTER Flex Fabric is a highly flexible, finely woven plastic fabric reinforcing mesh with very high tear resistance.

Packaging

50 m² roll; width: 100 cm, length: 50 m

Technical data

Base	100 % polypropylene
Color	white
Surface	perforated
Weight	approx. 66 g / m ²
Tensile strength	lengthwise 252 N / 5 cm crosswise 181 N / 5 cm
Elongation at break	lengthwise approx. 38 % crosswise approx. 105 %
Temperature resistance	- 30 °C to + 150 °C

Storage

Store the material dry and cool. It has no maximum storage life.

Technical guidelines cited

KÖSTER KBE Liquid Film	Art. Nr.	1.13
KÖSTER 21	Art. Nr.	3.03
KÖSTER NB Elastic Grey	Art. Nr.	3.031
KÖSTER NB Elastic White	Art. Nr.	3.034
KÖSTER Elastic Roof	Art. Nr.	3.038
KÖSTER Dachflex®	Art. Nr.	7.06
KÖSTER BD 50	Art. Nr.	7.09

Field of application

KÖSTER Flex Fabric is intended for reinforcing thin-layer waterproofing such as KÖSTER KBE Liquid Film, KÖSTER NB Elastic Grey, KÖSTER NB Elastic White, KÖSTER 21, KÖSTER Elastic Roof, KÖSTER BD 50 and KÖSTER Dachflex®. KÖSTER Flex Fabric is mainly applied in areas which are in danger of cracking as well as on feed throughs, connections, and transitions. Roof and balcony areas are always fully reinforced.

Application

The coating is applied in several work steps. KÖSTER Flex Fabric is embedded into the first still fresh coat using a trowel, roller, or similar tool. Not until the first layer has been allowed to dry can it be covered with subsequent layers.

For the layer thicknesses in which the materials have to be applied, please refer to the respective Technical Guidelines. Make sure installed sheets or strips of KÖSTER Flex Fabric overlap each other by at least 5 cm.

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