



KÖSTER 21

Technical Data Sheet / Prod. code W 210 020

Issued: 2015-02-02

White, 2 component, solvent free, multiple use crack bridging waterproofing, resistant to pressurized water, oil resistant

 0761	
 Waterproofing Systems KÖSTER BAUCHEMIE AG Dieselstraße 1-10, D-26607 Aurich 13 03030 EN 1504-2:2004 Surface protection products – Coating EN 1504-2: ZA.1d und ZA.1e	
Cross cut Permeability to CO ₂ Water vapor permeability Capillary absorption and permeability to water Thermal compatibility Adhesion strength by pull off test Reaction to fire Artificial weathering	NPD SD ≥ 200 m SD = 7,3 m (Class II) w = 0,011 kg/m ² x h ^{0,5} MW = 0,9 N / mm ² MW = 1,2 N / mm ² Class E NPD

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.

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.

Substrate

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

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.

