




KÖSTER 21

Technical Data Sheet W 210 020

Issued: 2023-10-19

- MPA Braunschweig (1202/794-20-1) Test according to DIN EN 1504-2 (Surface Protection System for concrete).
- MPA Braunschweig Testing for Fire Resistance (2301/921/20) and Classification of Fire Class (K-2301-921/20-MPA BS).
- Determination of the Solar Reflectance Index (SRI) Fraunhofer Institute (Test Report P15-018e/2013).
- Test Report 130567 / P00857/13 from the Croatian Institute for Public Health Appropriate for Drinking Water.
- Fraunhofer Institute (Test Report P15-018e/2013) - Determination of the "Solar Reflectance Index

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

 0761	KÖSTER BAUCHEMIE AG Dieselstraße 1-10, 26607 Aurich 20 W 210 EN 1504-2: 2004 Substrate Protection System - Coating EN 1504-2: ZA. 1d, ZA. 1e and ZA. 1f
Crack bridging capability Cross hatch cut CO ₂ -Permeability Water vapor permeability Capillary water uptake and permeability Frost-thaw with de-icing salt attack Tear-off test to determine tensile adhesive strength Reaction to fire Artificial weathering	Category 1: 0,4 mm NPd SD ≥ 200 m SD ≤ 5 m (Class I) w = ≤1 kg/(m ² * h ^{0,5}) MW = 1,2 N / mm ² MW = 1,3 N / mm ² Class E NPd

- Free of solvents and volatile organic compounds (VOC).
- Does not contain isocyanates or bitumen.
- 2-component, fast-curing.
- White color, reflects thermal radiation (saves energy).
- Versatile application per brush, trowel, roller, or spraying.
- Viscosity and workability can be adjusted with water according to jobsite requirements.

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	approx. 45 min.
Thickness per layer	0.5 mm – 2.0 mm
Crack bridging	0.4 mm
Density of fresh mortar	approx. 1.36 g / cm ³
Density of liquid component	approx. 1.24 g / cm ³
Largest aggregate size	0.4 mm
Values are given from the test report for CO ₂ diffusion	
Sd Value CO ₂	924 m
CO ₂ permeability	8.28 g/m ² · 24 h
μ value CO ₂	7.35 · 10 ⁵
Final mechanical strength and chemical resistance is reached after 7 days (at + 23 °C and 65 % rel. humidity).	

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.

Advantages:

- Elastic and crack-bridging.
- For indoor and outdoor application: resistant to UV-radiation, salt, hydrolysis, and freeze / thaw effects.
- Good adhesion to slightly moist mineral substrates.
- Good adhesion to a wide variety of materials.
- Easy to apply.
- Resistant to pressurized water.
- Hydrophobic (water repelling effect).

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, plastics, metal, and aggregate covered bitumen membranes.

- Waterproofing balconies and terraces, also before installing ceramic tiles.
- Waterproofing Basements.
- Waterproofing Roofs (with occasional foot traffic).
- Waterproofing Tanks and basins.
- Carbonisation inhibiting.
- Protection against aliphatic oils.
- Waterproofing old aggregate covered bituminous membranes (renovation).*

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.

Technical Data	Product Name: KÖSTER 21
Material Class	Universally applicable liquid waterproofing
Temperature range for application	+ 5°C to + 35°C
Consumption approx.	2.2 – 2.6 kg / m ²
Layers	2 / no primer (W)
Color	Pasty White
Solvent-Free	Yes
Can be plastered over	+
Crystallizing properties, penetrates into substrate	No
Mode of application	Trowel, brushable / sprayable
Suitable for negative side waterproofing	Sandwich-Waterproofing
Waiting time until backfilling	after approx. 48 hours
Simplicity of application	++
Sd Value Co ²	924 m
Thickness per layer	0.5 mm – 2.0 mm
Density	1.55 g / m cm ³
SRI value	0.93
Substrate	
Masonry	++
Cementitious plaster	++
Concrete	++
Polystyrene	+
Old Bitumen membranes	++
Plaster	++
Concrete or ceramic bricks	+++
Screeds	+++
Old ceramic substrates	+++
Gypsum	Should be removed
Moisture condition of surface	Dry or slightly damp (not wet)
Performance	
Waterproofing against max. load condition	Retained seepage
Time until rainproof	after approx. 24 hours
Chemical resistance	Good
Permeability to vapor diffusion	Medium
UV-resistance	Yes
Abrasion resistance	++
Crack bridging	+++
Embedding of a mesh	Yes

Lower+ Medium++ High+++

In case of highly absorbent substrates prime with KÖSTER Polysil TG 500

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