



- MPA Braunschweig, October 17th, 2019 Test for usability of the liquid polymer for waterproofing construction elements in accordance with serial No. C 3.28 - MPA Braunschweig, October 21st, 2019 Test for usability of the liquid polymer for waterproofing construction elements in contact with soil against water pressure, in the transition to water impermeable elements acc

serial No. C 3.25 - MPA Braunschweig, Fire behavior acc. DIN EN ISO 11925-2:2011-02 with classification report K2301/355/19-MPA BS - Research Report: Accelerated cyclical weathering according to the ASTM G154

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Very easy to apply, one component, fast curing, highly elastic, UV resistant waterproofing with very good adhesion to numerous substrates

1020	KÖSTER YAPI KİMYASALLARI GEBKİM Kimya İhtisas OSB Atatürk Bulvarı No:6 (41455) DİLOVASI / KOCAELİ 16 EN 1504-2 Regulation of moisture balance, Coating (C) 2.2
Water vapor permeability Capillary absorption and permeability to water	Class 1 W ^{0.5}
Adhesion strength	Crack bridging system or flexible systems without traffic load ≥ 0.8 N/mm ²
Response to fire Dangerous materials	D-s 1.d0 Materials 5.3 appropriate

Features

KÖSTER MS-Flexfolie is an eco-friendly, premium single component, liquid applied, elastic, crack bridging waterproofing material, based on MS Polymer technology. It is characterized by excellent adhesion to a wide variety of building materials and can be applied on dry or slightly moist substrates. It is liquid applied and therefore seamless, which greatly eases application to complicated architectural details. It is characterized by a high UV resistance and stability and it is suitable for indoor and outdoor application. The coat is fast curing and quickly resistant to rain.

The KÖSTER MS-Flexfolie is free of solvents and therefore does not suffer from solvent evaporation in the curing process, that leads to shrinkage and consequent cracking.

The KÖSTER MS-Flexfolie is free of isocyanate, which in contact with moisture, releases carbon dioxide resulting in bubble formation and voids that lead to cohesive failures overtime. This allows it to be used on slightly moist substrates, unlike regular solvent base PU coats.

Advantages

- Ready to use material (1 component)
- · Seamless waterproofing coat with simple application
- Thixotropic consistency for slope and vertical areas
- · Adhesion to multiple substrates
- · Excellent weather and UV resistance
- · Eco-friendly product
- Multiple surface application
- Excellent for small repairs as well as new areas of all sizes
- Maintains its properties on temperatures between 30 ° C to + 80 ° C

- · Resistant to oils, seawater, detergents and several chemicals
- Resistant to hydrolysis, salts, and frost
- · Solvent, silicone, water and bitumen free
- · Solvent free material
- Worker and workplace safe, does not produce toxic fumes
- No shrinkage due to solvent escape during curing
- No cracking due to shrinkage process on curing
- Can be applied in higher thicknesses than solvent based coats
 Isocyanate free material
- Worker and workplace safe, does not produce toxic fumes
- Does not react with moisture to form carbon dioxide
- Allows application on slightly moist substrates
- Does not form bubbles and voids that lead to cohesive failure

Technical Data

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Color	grey (approx. RAL 7040)
Density	1,45 to 1.5 g / cm ³
Viscosity	26.000 mPa•s
Consistency	Liquid
Adhesion to concrete	2,0 N/mm ²
Tensile strength (+ 23 °C)	2,0 N/mm ²
Elongation at break (DIN 52455)	500 %
Capillary water absorption (EN	0,004 kg/m².h ^{0,5}
1062-3)	
Shore A hardness	30-35
UV / Weathering Resistance	unchanged after 5000 h
(ASTM G154)	
Number of layers	min. 2 layers
Application Temperature	+ 5 °C - + 35 °C
Service temperature	- 30°C to + 80 °C
Drying time between first- and	min. 8 hours – max. 24 hours
second-layer	
Complete curing	4 - 7 days
Recommended application	1 to 2 mm
thickness	

Fields of Application

KÖSTER MS-Flexfolie is a waterproofing material for the positive side waterproofing for different situations. Due to its excellent adhesion to most substrates (including masonry, concrete, screed, PVC, PP, PE, FRP, plastics, and metal) and high elasticity, it is an excellent repair material as well as a complete waterproofing coat for big areas.

- · Waterproofing of Exposed Flat Roofs
- Waterproofing of Exposed Terraces
- Waterproofing of wet and damp rooms under tiles (e.g. kitchens,
- bathrooms, garages)
 - Waterproofing of Balconies and Terraces under tiles
- · Waterproofing of Flowerbeds and Planter Boxes

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.

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Issued: 2020-07-14

Technical Data Sheet W 200 008



· Sealing of connections, pipes and feedthroughs

· Sealing of chimney connections, roof lights, gutters, edge and corner details

Custom use for connections between different building materials

Substrate

Substrates must be free of loose particles or other bond inhibiting substances. Soiled substrates must be cleaned down to a solid layer. Always choose to remove old paints, oils, fats, organic substances by grinding. Clean off dust completely. Maximum moisture content should not exceed 5%. Concrete substrates must have minimum 28 days of curing. Installation on copper, EPDM and on permanent wet area is not possible.

Minimum substrate compressive strength of 25 MPa (N/mm2) and cohesive bond strength at least 1.5MPa (N/mm2). On interior corners and wall-floor junctions, install a fillet made of KÖSTER Repair Mortar Plus approx. 24 hours prior to the application of KÖSTER MS-Flexfolie. Exterior corners must be broken and rounded.

Cracks repair

Cracks bigger than 0,5 mm should be treated prior to the installation of the waterproofing coating. Cracks smaller than 0,5 mm are to be cleaned from all contaminations. Prime the crack with KÖSTER CT 121 and allow 2-3 hours to dry. Then, apply a layer of KÖSTER MS-Flexfolie and on top the reinforcement polyester mesh KÖSTER Superfleece 10 cm wide, centered over the crack while still wet. Slightly press it and fully cover it with KÖSTER MS-Flexfolie. Allow 6 to 8 h to cure before starting the application of the area waterproofing.

On concrete and other mineral substrates (except gypsum)

In order to avoid the risk of blistering, KÖSTER CT 121 primer must be applied beforehand when using the KÖSTER MS-Flexfolie. This is then broadcast to rejection with kiln-dried silica sand to increase roughness and improve adhesion of the waterproofing coating.

On non-absorbent substrates and PVC profiles (various plastics e.g. PE, PP, FRP) or metals

The surface must be roughened with a scouring pad (eg. Scotch Brite) and cleaned with alcohol. As a primer, KÖSTER PU 120 is thinly and evenly applied with a lint-free cloth (consumption approx. 30-50gr/m2).

On old bitumen / bituminous waterproofing membranes:

KÖSTER MS-Flexfolie can also be applied on old bituminous coatings or bituminous membranes. Nevertheless, bitumen can contain oils that leak during weathering and can lead to discoloration or even detachment of the waterproofing. This may be assessed by installing a test area. Discoloration of the waterproofing caused by old bitumen cannot be excluded.

Application

Mixture and tools

· KÖSTER MS Flexfolie is a 1 component ready to use product.

· The material must be well homogenized in the original bucket before usina.

· The application can be carried out by using all kinds of brushes and short hair rolls

• Always perform a 1 m² test to determine the consumption of the primer and the coat.

Waterproofing Coat: 2 x KÖSTER MS Flexfolie (consumption approx. 1,5kg/m² for each 1mm thickness)

· KÖSTER MS-Flexfolie is applied with a brush, roller, trowel, or other customary tools.

• Fill voids and pours inferior to 5 mm with KÖSTER MS-Flexfolie

· All defects bigger than 5 mm should be previously filled and levelled with KÖSTER Repair Mortar Plus and a minimum 24h curing time of the mortar should be respected before the application of the elastic membrane KÖSTER MS Flexfolie.

Surface preparation methods for concrete and mortars can be high pressure water, sandblasting, shotblasting or the respective primer, according to the manufacturer instructions and/or the substrate conditions.

KÖSTER Superfleece can be embedded on top of the first coat on 90º angles, cracks, chimneys, pipes, waterspouts, siphons, cable penetrations. The overlapping should be at least 10 cm.

KÖSTER Flexfabric is embedded on top of the first coat as an area reinforcement, for flat roofs, balconies and terraces. In normal conditions, the area reinforcement is not mandatory on interior areas.

Consumption

approx. 1.5 - 2.5 kg / m²

Do not exceed layer consumption by more than 100%.

Cleaning

Clean tools immediately after use with KÖSTER Universal Cleaner. Cured material must be mechanically removed.

Packaging

W 200 008	2 x 4 kg tubular bags
W 200 025	25 kg bucket

Storage

Store the material frost free at room temperatures between + 15 °C and + 25 °C. Protect the material against moisture and direct sunlight. Products should always remain stored in their original and unopened containers with the original labels and batch number tags. In originally sealed packages, the material can be stored for a period of 12 months.

Safety

Use protective gloves and glasses when working with the material. Observe all governmental, state, and local safety regulations while processing the material.

Other

Do not apply KÖSTER MS Flexfolie on very damp substrates or on substrates which are subject to rising damp.

· KÖSTER MS Flexfolie was not developed as a high traffic coat such as a flooring system.

The final thickness of KÖSTER MS Flexfolie must be at least 1 mm, in order to form a consistent, flexible, continuous and waterproofing coat.

· No gaps caused by substrate imperfections are accepted.

Low temperatures retard the curing process and high temperature speed curing.

· High humidity may affect the final results.

Related products

KÖSTER Repair Mortar NC Prod. code C 535 025 KÖSTER LF-BM Prod. code CT 160 KÖSTER Construction Resin Prod. code CT 165 025 KÖSTER KB-Pox Thickening Agent Prod. code CT 764 KÖSTER PU Primer 120 Prod. code J 138 250 KÖSTER Superfleece Prod. code W 412

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KÖSTER Universal Cleaner

Prod. code X 910 010

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