

KÖSTER® MS-Flexfolie

MS Polymer based, very elastic waterproofing product

- EAD 030350-00-0042 (former ETAG-005) system test certificate.

Product Description:

KÖSTER MS-Flexfolie is a liquid applied waterproofing product based on MS Polymer technology.

KÖSTER MS-Flexfolie is solvent free and does not contain isocyanates. The material cures to form a very elastic (500%), crack bridging and impermeable waterproofing layer.

KÖSTER MS-Flexfolie is resistant against UV radiation and exterior temperatures between -25°C and +80°C.

KÖSTER MS-Flexfolie has excellent adhesion on many different building materials and can be applied on dry or slightly damp surfaces.



Applications:

Suitable for the waterproofing of roof and roof gutters, terraces and balconies, wet and damp rooms and similar applications.

Suitable surfaces for application are concrete, prefabricated concrete parts, watertight concrete, lime-sandstone blocks, masonry, old bitumen membranes, rigid plastics (PVC, FRP, Polycarbonate), painted sheet metal, etc. Always use suitable primer for different surfaces.

For Example:

1. Connections between roof and chimneys, floor/wall junctions, pipe penetrations, edge and corner areas on flat roofs, roof lights, gutters etc.
2. Waterproofing of balconies and terraces under tiles or under screed.
3. Waterproofing of wet and damp rooms under tiles or under screed.
4. Sealing of connections between prefabricated concrete parts.
5. Waterproofing of connection points in roof panels manufactured from painted steel sheeting.
6. Waterproofing roof gutters manufactured from FRP, steel or prefabricated concrete.
7. Restoration of old bituminous membranes and bituminous membranes with granule finished top coat.
8. Waterproofing of roof lights and roof light panels.

Technical Data:

Application temperature	+5°C to +35°C
Tensile strength (+23°C)	1,30 N / mm ²
Elasticity (+23°C)	% 500
Shore A hardness	apr. 50
Service temperature	-25°C to +80°C
Application thickness	1,50 – 2,0 mm
Density	1,50 gr / cm ³
Recoat after (+23°C)	8-12 h
Completely cured after (+23°C)	24-48 h

Application Procedure:

Surface Preparation:

Application surfaces can be dry or slightly damp. Avoid standing water and if in doubt, test the adhesion. Humid surfaces or humidity which penetrates from behind may cause bubbles in the layer.

The substrate must be solid, clean and stable, without any lumps, cavities or cracks. Any residues of oil, formwork oil, grease, dust, sintered layers or other separation layers must be cleaned before start of the application.

If necessary the surfaces must be prepared by mechanical methods like grinding or shot blasting.

Defects in mineral surfaces must be repaired with KÖSTER Repair Mortar at least 24h before the application. Wall to floor junction coves must be formed with KÖSTER Repair Mortar at least 24h before the application.

Dilatation joints should be waterproofed with KÖSTER Joint Tape before the application.

KÖSTER MS-Flexfolie is ready to use, do not add any solvents or fillers to the material. Carefully mix the material before application, avoiding air bubbles.



Priming of Concrete Surfaces :

Concrete surfaces should be primed with KÖSTER KB-Pox 002 epoxy primer. After the primer is cured (apr. 24 hours) KÖSTER MS-Flexfolie can be applied.

KÖSTER MS-Flexfolie application :

The material should be stored at room temperature for 24 hours before the application begins.

Application should be done with a stiff brush or roller in 2 coats.

Wait 8-12 hours (depending on temperature) between layers. In cold climates or high humidity the drying period may take longer.

If there is a risk of cracking or hairline cracks are on the substrate embed KÖSTER Elastic Fabric over the whole surface in the first layer including the upturn edges and connections.

Protect the fresh coating from water and freezing until completely cured.

Notes:

Do not apply below +5°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 the coating. High levels of humidity might prevent proper curing of coating.

If in doubt perform adhesion test before application.

Consumption:

MS-Flexfolie (in 2 layers) 1,50 – 2,50 kg / m²



Colours : white and grey

Packaging:

KÖSTER MS-Flexfolie 25 kg pail

KÖSTER MS-Flexfolie 6 kg pail

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Storage:

Containers must be stored at +5°C to +30°C in tightly sealed containers. Keep out of direct sunlight, protect from water and freezing.

Shelf Life: 12 months.

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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	
1020 - CPR - 040 051989 / DOP NO: 022 EN 1504-2 KÖSTER MS-Flexfolie MS Polymer based, very elastic waterproofing product Coating application (C) 2.2	
Permeability to water vapour	Class I
Capillary absorption and permeability to water	$W < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
Rupture	Crack closure or flexible systems without traffic load $\geq 0,8 \text{ N/mm}^2$ (0,5F)
Response to Fire	D-s1,d0
Dangerous Materials	Materials 5.3 appropriate

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