

**KÖSTER**

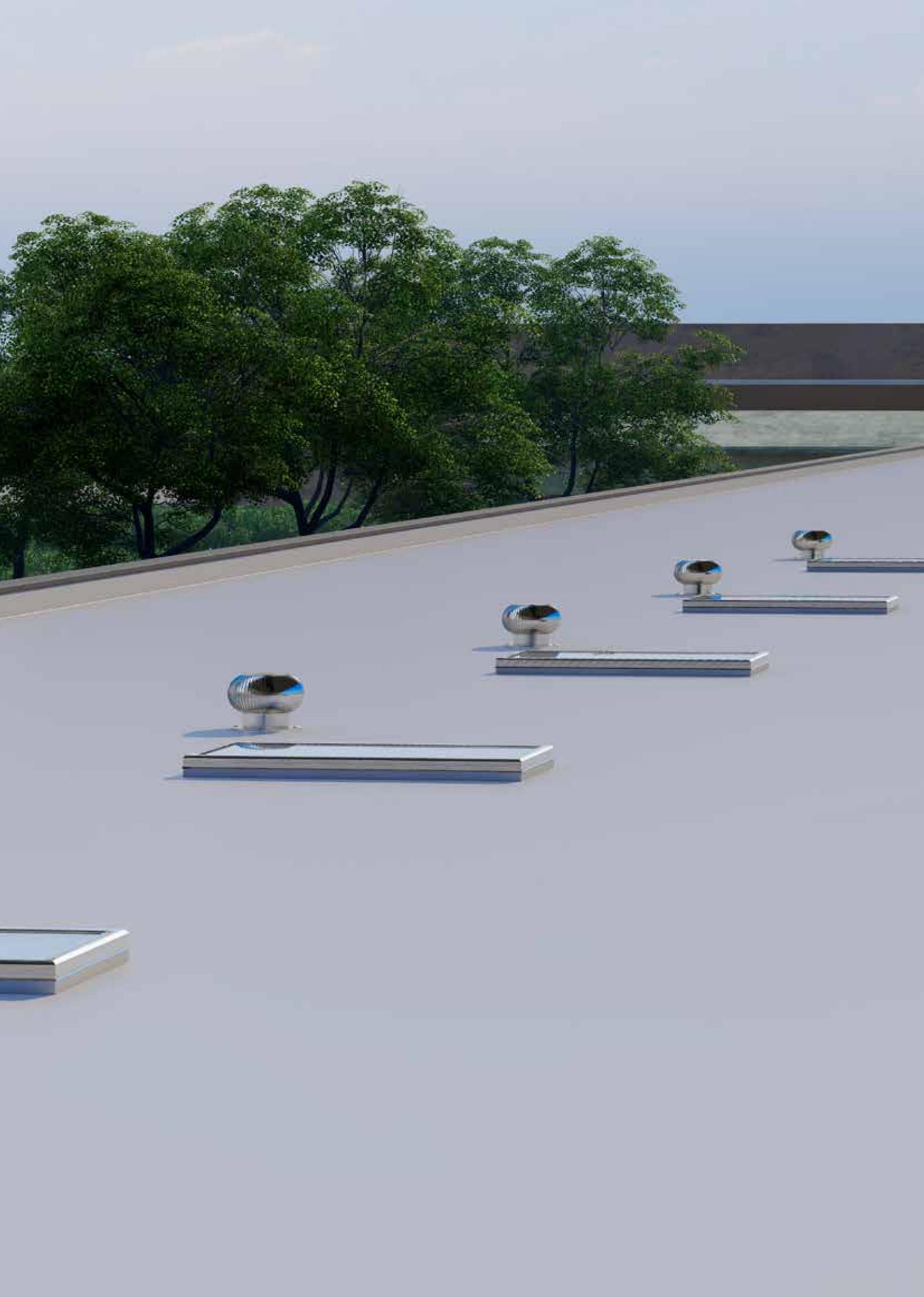
# KÖSTER MS-Flexfolie



**MS Polymer  
Technology**



Single component, solvent free, highly elastic,  
highly UV-resistant, crack bridging waterproofing



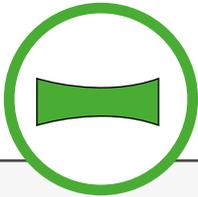


MS Polymer technology is an innovative hybrid polymer technology that offers superior durability and longer service life performance for liquid waterproofing coatings.



KÖSTER MS-Flexfolie is characterized by excellent adhesion to a wide variety of building materials and can be applied on dry or slightly moist substrates.

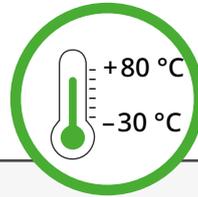
# Advantages



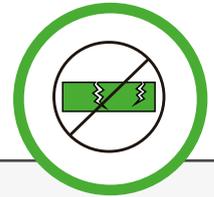
Very high elasticity  
> 500 %



Worker and work-  
place safe, does not  
produce toxic fumes



Temperature  
resistance  
- 30 °C to + 80 °C



No cracking due to  
shrinkage process  
during curing



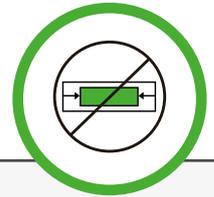
Resistant to  
hydrolysis, salts  
and frost



Resistant to oils,  
seawater, detergents  
and several chemicals



Excellent UV  
resistance



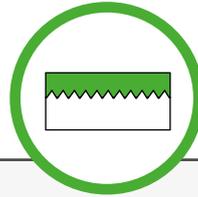
No shrinkage due  
to solvent escape  
during curing



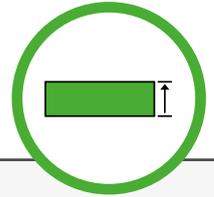
No Solvents /  
No Isocyanates



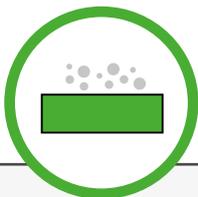
Eco-friendly  
product



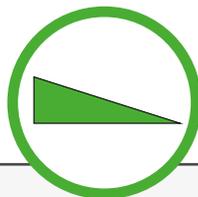
Adhesion to  
multiple substrates



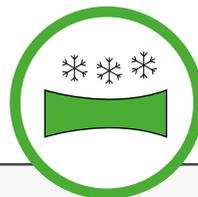
Allows higher  
thicknesses than  
solvent coats



Does not foam at  
contact with  
residual moisture  
on the surface



Thixotropic  
consistency for slope  
and vertical areas



Elastic at negative  
temperatures



Free of PVC, Silicone  
and Detergents



KÖSTER pushes the boundaries of waterproofing performance with this very special product.



# Comparison performance with PU and Acrylic

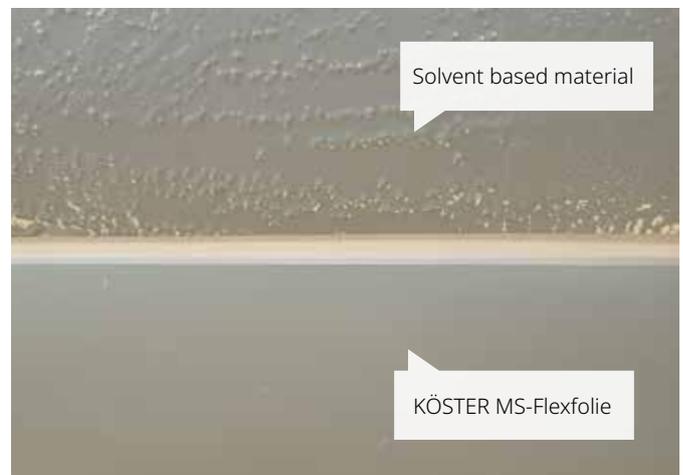
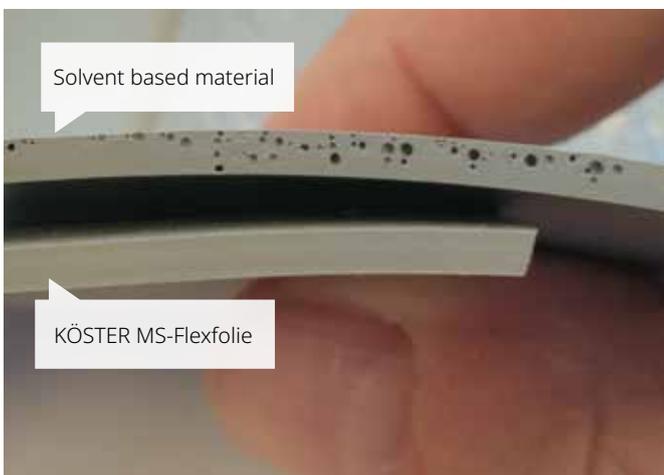
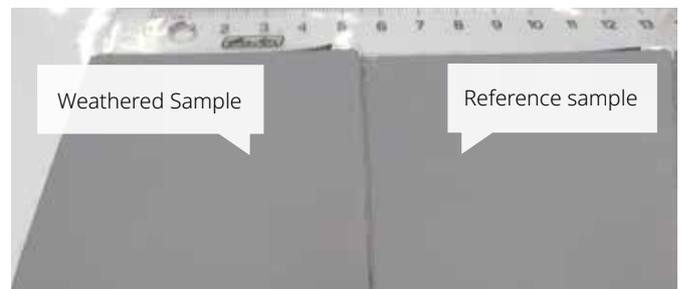
Property	KÖSTER MS-Flexfolie	Polyurethane*	Acrylic
Environmental friendliness	++	-	++
UV resistance	++	-	+
Weathering resistance	++	+	+
Discoloration resistance	++	-	-
Elasticity	++	+	-
Durability	++	+	-
Non-bubbling	+	-	+
Adhesion to different substrates	++	-	++
Extreme temperatures application	++	++	-
Elasticity at negative temperatures	++	+	-
Mechanical properties / stability	+	++	+
Heat resistance	++	++	-
Safe for humans, plants and transport	++	-	++

++ High / + Medium / - Low

\* Aromatic solvent based PU

## Tested very high UV and moisture resistance

Even weathered 10 x the standard ASTM 154G KÖSTER MS-Flexfolie does not show any degradation that negatively affects its performance in any way.



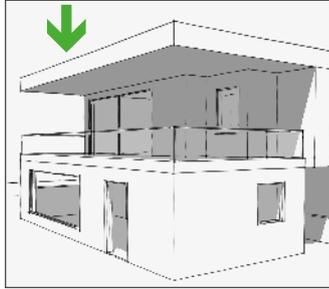
// KÖSTER MS-Flexfolie vs solvent based material applied on the same moisture content substrate



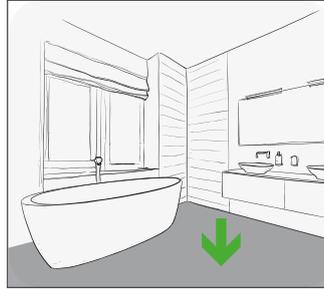
KÖSTER MS-Flexfolie:  
Fast, flexible, reliable, seamless and UV-stable

# Fields of Application

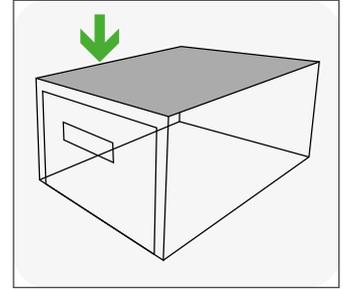
Concrete flat roofs and roof terraces



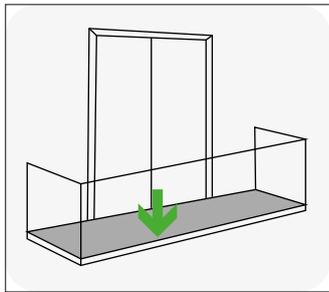
Wet and damp rooms (e.g. bathrooms)



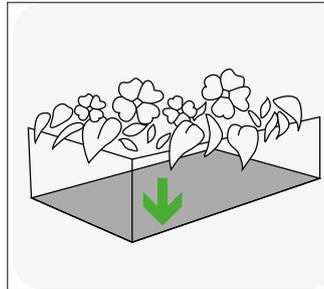
Garage roofs



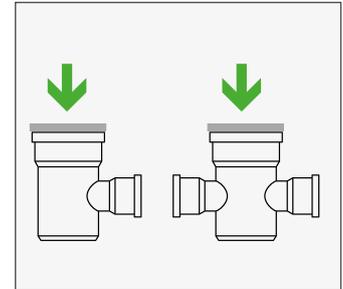
Balconies and terraces



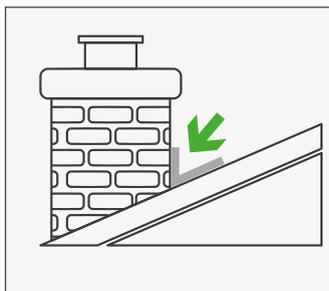
Flowerbeds and planter boxes



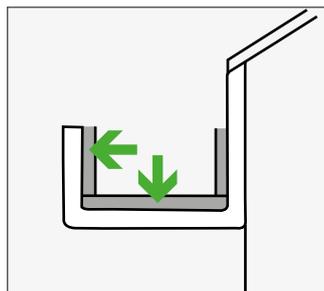
Connections, pipes and feedthroughs



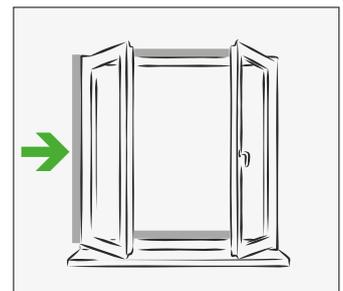
Chimney connections and roof lights



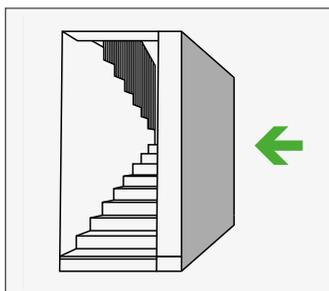
Gutter, edge and corner details



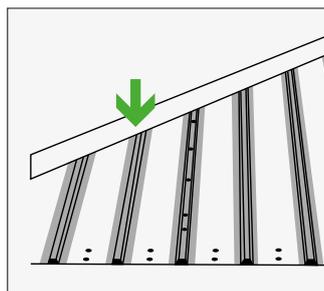
Connections in door and window frames



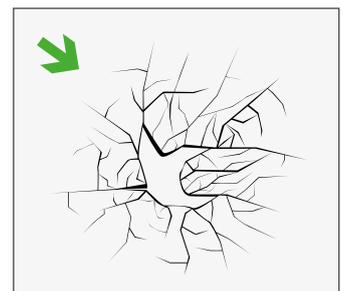
vertical areas (masonry and concrete basement walls)



Sealing of joints between metal roof panels



Repair of old metal roofs and waterproofing membranes



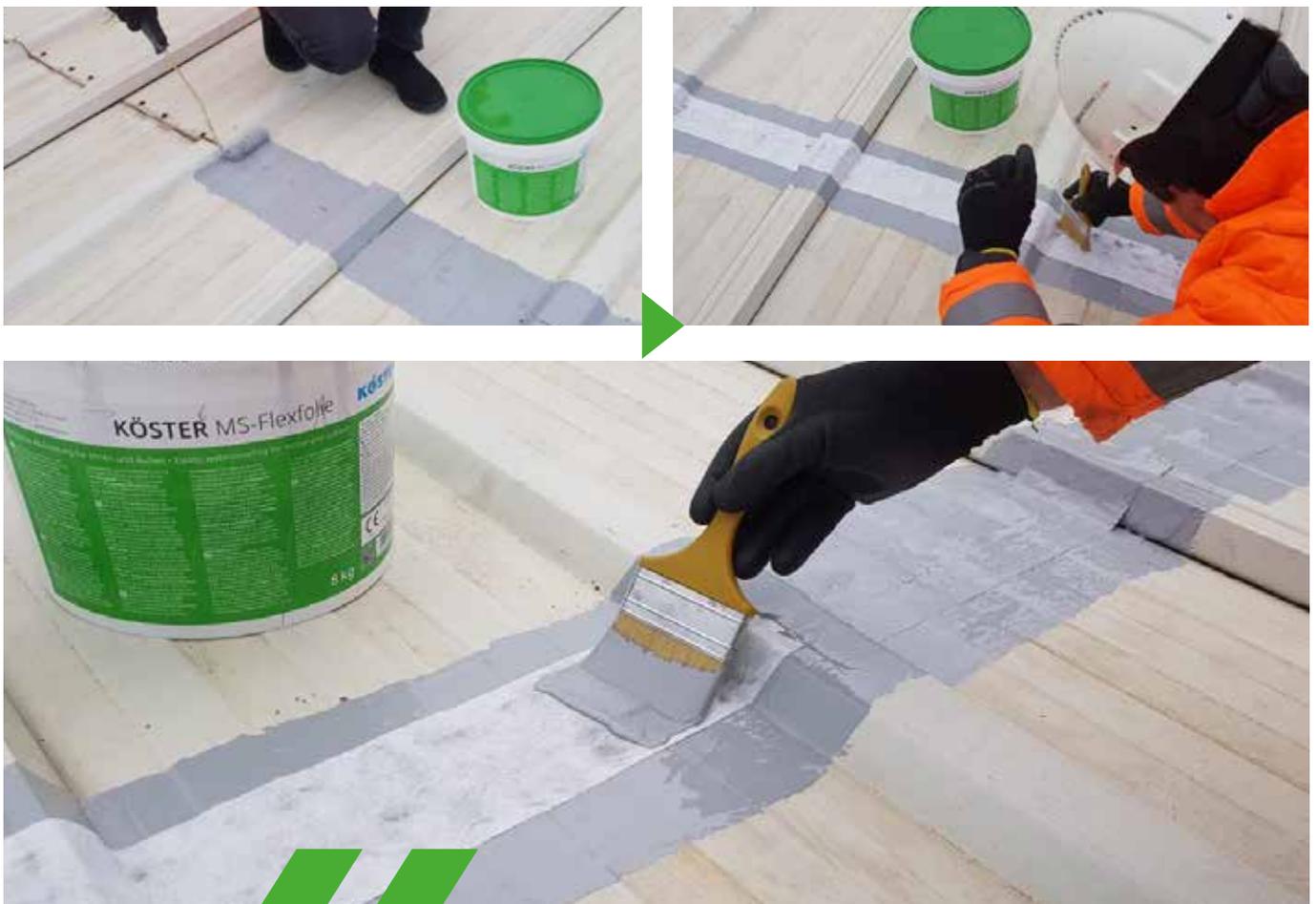
All governmental, state and local regulations, guidelines and standards must be observed when processing the material. In the European Union liquid applied waterproofing for roofs, terraces and balconies are regulated according to EAD 030350-00-0402. Relevant tests for KÖSTER MS-Flexfolie are in the process. Status: June 2021.

# Application examples and details

Joints between aluminum sheets



Joints between panels



Easy to apply –  
even the most complex details...

Pipe, cable and other feed-through and penetrations



Wall-Floor junctions/ joints between materials



Connection to TPO roofing membranes



Gutters and water channels



Bolts and small details





## Perfect packaging suits all needs

Our 25 kg pails for big projects and our 8 kg (2 x 4 kg alu pouches inside) for details





## Accessory products



KÖSTER CT 121  
Epoxy primer for mineral  
substrates



KÖSTER KB-Pox 002  
Epoxy primer for mineral  
substrates

(For specific markets)



KÖSTER PU Primer 120  
PU primer for  
PVC substrates



KÖSTER Superfleece  
Polyester non-woven  
reinforced fleece



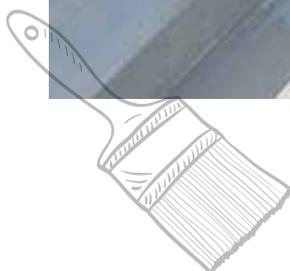
KÖSTER WP Mortar  
Special mortar for mineral  
substrate repairs & fillings



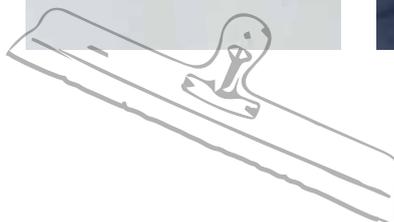
KÖSTER TPO Primer  
Solvent base primer for  
KÖSTER TPO membranes

## Application tools

Brush



Trowel



Roller





The key is to understand the complex problems on site and to offer a simple solution.

## Certificates

- CE Marking acc. EN 1504-2: 2008-04 Products and systems for the protection and repair of concrete structures
- 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
- ERA Classification of Reaction to Fire in acc. EN 13501-1:2007+A1:2009
- Product Declaration of Performance
- kiwa GmbH Polymerinstitut, test report P 13386, „Tests of the waterproofing system (LARWK) KÖSTER MS-Flexfolie in accordance with the guideline for European Technical Approval for liquid-applied roof waterproofing EAD 030350-00-0042“, June 1st., 2022





We are there for you – worldwide.

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**KÖSTER**  
Waterproofing Systems

