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KÖSTER

Roof waterproofing

KÖSTER TPO SK (FR) Installation Instructions

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KÖSTER
Waterproofing Systems



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Can be applied over EPS insulation!

Features:

KÖSTER TPO SK (FR) is a self-adhesive KÖSTER TPO Membrane with a special laminated underside. Due to its improved flame-resistant properties, it can be applied directly over EPS insulation.

KÖSTER TPO SK (FR) is classified as Broof (t1) and fulfills the requirements for "hard roofs."

Important advantages at a glance:

- Fast and easy installation
- Excellent adhesion to a wide range of substrates
- Cost-efficient: long life expectancy
- Maximum protection against wind suction forces
- Single-layer waterproofing
- Compatible with bitumen
- High thermal and mechanical resistance
- UV-stable
- Resistant to root and rhizome penetration
- Plasticizer-free
- Does not contaminate groundwater
- Remains flexible and elastic at low temperatures

Substrate preparation:

The substrate has to be solid, clean, dry, as well as free of oil and grease. Roof layers must be securely positioned and protected against wind uplift in accordance with EN 1991-1-4. Before repair, all existing roof layers must be ready to receive work and meet minimum stability requirements. The surface must be even and free of defects such as blisters, bubbles, or voids. Any defects must be repaired and corrected. Prime the substrate with KÖSTER TPO SK Primer.

Acceptable substrates:

Substrate	Direct application	KÖSTER TPO SK Primer
EPS insulation unclad	✓	-
XPS insulation unclad	✓	-
PUR/PIR insulation fleece-laminated*	✓	-
PUR/PIR insulation aluminum-laminated*	✓	-
Mineral fiber insulation fleece laminated*	-	✓
Bitumen sealing membrane underlay (KSK)	✓	-
Concrete	-	✓
Wood composite material such as maritime pine plywood	-	✓

*Adhesive attachment must be approved by manufacturer.

Non-acceptable surfaces include unclad PUR/PIR insulation, scaffolding, gravel, and existing polymer membrane roofs.

For other surface types, please consult KÖSTER BAUCHEMIE AG.

Application:

The KÖSTER TPO SK (FR) Membrane is unrolled and aligned on the roof. Membranes are overlapped with a width of at least 5 cm using the fleece-free edge of the membrane. For application onto EPS insulation the overlap width is increased to 8 cm.

Next, the backing paper is pulled through to the side from underneath the membrane. It is important to ensure the membrane does not shift while removing the backing paper.

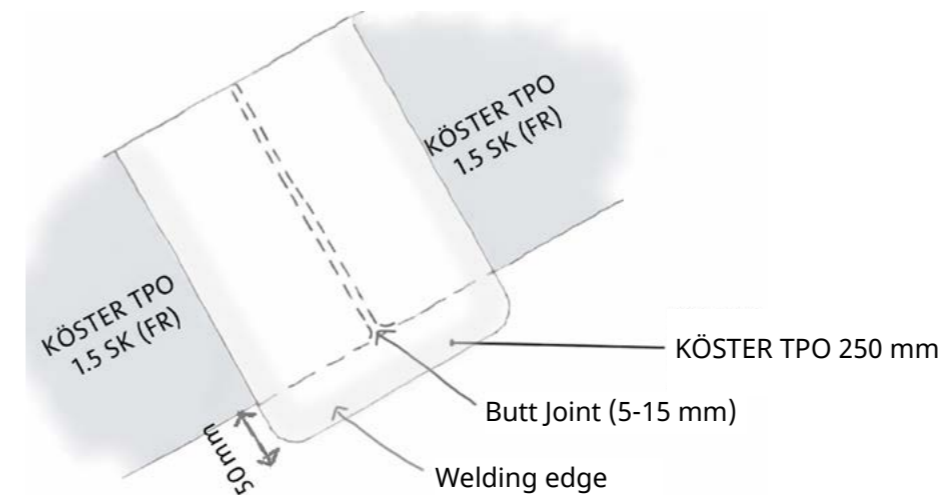
Afterwards, using a roller, firmly press the membrane onto the surface. It is important to ensure before welding that the membrane has been firmly pressed especially in seam areas.

Seams are welded with hot air. When using a hot-air hand tool, spot welding is not necessary.

Membrane end connections:

At membrane end connections, membranes are overlapped with a width of at least 5 cm (for EPS insulation the overlap width is increased to 8 cm) and welded with a hot-air hand tool.

Afterwards, the membrane end connection is covered with a 250 mm cover strip of KÖSTER TPO and welded.

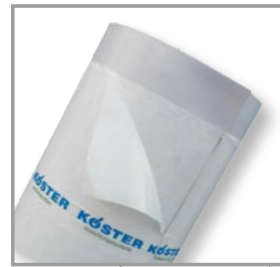


Fastening of linear edges:

The fastening of linear edges to all connections and terminations must follow the Flat Roof Guidelines and regulations according to DIN 18531.

KÖSTER TPO SK (FR) as a connecting membrane

KÖSTER TPO SK (FR) can be used as a connecting membrane on vertical construction members. Please note the requirements regarding acceptable substrates listed in the chart. The membrane is mechanically fastened at the upper edge of the connection and secured against water ingress. KÖSTER TPO SK (FR) can also be fully adhered for connections over 50 cm.



KÖSTER TPO SK (FR) Membrane