



## The UK's leading low pitched roof membrane.

Permo Extreme is a tear-resistant roof underlay designed for use on low pitched roofs, down to a minimum roof pitch of 12.5° for interlocking tiles, 15° for slates and 22.5° for plain tiles. This makes Permo Extreme roof membrane the perfect solution for extensions and lean-tos, particularly as the roll is available in a half-size for smaller projects. The membrane is fleece lined to control condensation, whilst it's fitted with self-adhesive tape, which provides a permanent seal of overlaps and immediate weatherproofing protection against wind, rain and snow. Permo Extreme is also highly temperature resistant from -40°C to +100°C and can be deemed as a primary barrier when installed with Klover accessories and covered by a UV protected layer such as tiles or slates.



## PERMO EXTREME

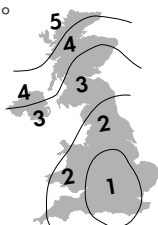


### Features and benefits

- Offers design flexibility by enabling you to use tiles below their recommended minimum pitch.
- The fleece layer greatly reduces the risk of condensation forming.
- Independently tested to 1 in 50 year storm conditions, whilst the self-adhesive tape creates added strength and durability for a water and air tight seal.

### Area of application

- High resistance membrane so requires ventilation.
- Minimum roof pitch of 12.5° for interlocking tiles, 15° for slates and 22.5° for plain tiles.
- Wind zones 1 - 5. (Wind zones shown are for a 345mm batten gauge.)



### Related products

- Butylon Tape KU0104
- Pasto Sealant KU0128
- Underlay Support Tray KP973910
- Over Fascia Vent KP964300 / KP965200
- Roll Out Rafter Tray, all sizes.

### Approvals and certifications

- CE
- All products supplied by Klover Ltd are covered by a 10 year guarantee against manufacturing defect.



### Technical guidance

Material	Two layer underlay with monolithic TPU coating on tear resistant PES fleece.
Colour	Dark blue
Weight g/m <sup>2</sup> EN 1849-2	240
Water vapour transmission (SD value) EN 12572	0.08m
Resistance to water penetration EN 1928	W1
Tensile strength MD/CD (N/50mm) EN 12311-1	310/360
Nail tear strength MD/CD (N) EN 12310-1	215/200
Elongation MD/CD (%) EN 12311-1	45/55
Fire rating EN 13501-1 EN11925-2	E
Resistance to temperature	-40°C to + 80°C

\*The Underlay can be used to provide temporary weather protection; however an exposed underlay will be subjected to UV light which may lead to premature failure; therefore, the exposure period should be kept to a minimum. An underlay is not a total waterproof barrier and if used as a temporary waterproof covering, some rain penetration may occur. In certain conditions, particularly if there is persistent heavy rainfall combined with subsequent severe freeze/thaw conditions, an underlay should not be exposed for more than a few days. (BBA)

### Product information

Product code	Width m	Length m	m <sup>2</sup>	Weight Per Roll kg	Pallet quantity
KU0171-11	1.5	50	75	18	12
KU0171-11-25		25	37.5	9	30

Klover is certified to ISO 9001:2015 for Quality Management and ISO 14001:2015 for Environmental Management. All Klover products comply fully with all relevant Building Regulations and British Standards.