



TDS



## Technical Data Sheet



Category: Water

Technology:  
PU/Bitumen

### Product: ElePrufe PU Bitumen 1K

#### Bitumen Polyurethane Membrane

*A premium quality, liquid cold applied, one-component bitumen polyurethane self levelling elastic waterproofing membrane, typically used for buried membrane applications. It is based on elastomeric hydrophobic polyurethane resin and supported with chemically polymerised bitumen.*



#### Advantages

- ☐ Great 11.5m<sup>2</sup> per 23kg coverage at 1.5mm
- ☐ Applicable on damp surfaces.
- ☐ Excellent resistance to water and moisture.
- ☐ Can be applied by brush, roller or a trowel.
- ☐ Fantastic Adhesion to many materials
- ☐ Elastic down -30degC to +90degC
- ☐ Also available as a trowel grade as special order.

#### Applications

- ☐ Concrete floor slabs and roofs.
- ☐ Balconies, terraces and podium decks
- ☐ Waterproofing of Wet Areas (under-tile) in bathrooms, kitchens, balconies, mechanical plant rooms
- ☐ Applied in 2 layers totalling 1.5 litres/m<sup>2</sup> (2kg/m<sup>2</sup>)

#### Surface Preparation:

The surface needs to be clean and sound, and free of any contamination which may harmfully affect the adhesion of the coating. Standing water must be completely removed prior to application.

Old coatings, dirt, fats, oils, organic substances and dust need to be removed with a grinding machine. Any loose materials must be thoroughly removed.

#### Application:

- 1) ElePrufe PU Bitumen 1K, is ready-to-use, simply open the buckets and stir before using. The system is applied evenly in two layers, manually with a roller, brush or spatula.
- 2) Spread or pour in lines directly on the surface and subsequently spread with a short pile roller (roller for epoxy/polyurethane paints).
- 3) The second layer is applied after complete drying of the first layer. It is highly recommended to apply the second layer within 6-24 hours. Furthermore, it can be applied with a flat trowel for horizontal surfaces.
- 4) For under tile projects, in order to maximise adhesion of the tile adhesive, best practice is to scatter sand/quartz aggregate into the final layer of ElePrufe PU Bitumen.
- 5) Flood testing is typically recommended 7 days after installation. Testing may be done earlier but like all PU Bitumen products this could affect the long term performance and warranty.





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# Product: ElePrufe PU Bitumen 1K – PU Bitumen Waterproofing Membrane

### COVERAGE

Coverage: 23kg - 1.5-2kg per m2 at 1.5mm.

One 23kg bucket will typically cover 11.5m2 on your project at 1.5mm

### STORAGE AND SHELF LIFE

Should be protected from water, frost and adverse air conditions. Should be kept dry and cool on wooden pallets at between +10degC and +25degC in moisture free conditions. The opened products should be consumed immediately. Shelf life is maximum 12 months conditional to complying with the aforementioned storage conditions.

### SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

### PACKAGING

*Product*

*Fill Volume/Weight*

ElePrufe PU Bitumen 1K

23kg

(self levelling or trowel grade)

Property	Unit	Test	Result
Colour			Black
Viscosity (BROOKFIELD)	cP	ASTM D2196-86 / TS 5833	3.000 – 6.000
(23°C ve % 55 RH)		EN ISO 3219	
Density (23°C & % 55 RH)	gr/cm <sup>3</sup>	ASTM D1475 / DIN 53217 / ISO 2811	1.30 ± 0,05
Flash Point	oC	ASTM D93, closed cup	42
Walk on Time	hours	-	8 – 12
(23°C & % 55 RH)	days		5
Full cure	hours	-	8 - 12
Second Coat	Shore A	ASTM D2240 / DIN 53505 / ISO 868	40 - 45
Hardness (7 days)	N/mm <sup>2</sup>	ASTM D412	> 2
Tensile Strength	%	ASTM D412 / EN-ISO-527-3	> 500
(23°C & % 55 RH)(7 days)	N/mm <sup>2</sup>	ASTM D4541	> 2
Elongation at Break			
(23°C & % 55 RH)			
Adhesion to Concrete			

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