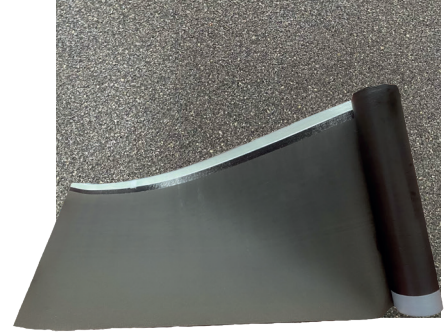




BONUS | PROOF EP450 H

Full protection in one layer



High performance and new generation waterproofing product that provides full adhesion to fresh concrete with elastomeric (SBS) added concrete pressure and hydration without requiring protective concrete in insulation of foundations and deep foundations.

TS EN 13969: Flexible sheets for waterproofing - Bitumen damp proof sheets including bitumen basement tanking sheets.

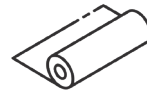
ADVANTAGES OF BONUS PROOF EP450 H

- ✚ 4,5 mm thickness.
- ✚ Specially prepared for foundation and deep foundation insulation.
- ✚ Polyester felt carrier.
- ✚ It is a bituminous product with elastomeric (SBS) additives.
- ✚ It saves costs and time with single-layer application.
- ✚ Cold bending -20°C provides full protection with its flexibility and durability.
- ✚ It provides complete adhesion to the concrete with its special sandy surface.
- ✚ Fast application process.
- ✚ It is resistant to tears and punctures.
- ✚ It does not require protection concrete.
- ✚ It provides excavation advantage.

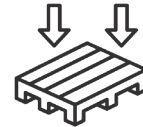
STORAGE

- ✚ Do not stack pallets of the rolls on top of each other.
- ✚ The product must be stored in an upright position.
- ✚ During winter, the membranes should be stored at room temperature before being used.
- ✚ The product must be protected from sunlight.
- ✚ Disposal of the product packaging should at all times comply with the requirements of waste disposal legislation and regulation.

PACKAGING



Roll: 8 m²



Pallet: 200 m²

TECHNICAL SPECIFICATIONS

Specifications	Test Method	Unit	Tolerance	Value or Statement
Length	TS EN 1848-1	m	min(-0,03)	8
Width	TS EN 1848-1	m	min(-0,02)	1
Thickness	TS EN 1849-1	mm	± 0,2	4,5
Straightness	TS EN 1848-1	-	-	Pass
Dimensional Stability	TS EN 1107-1	%	± 0,1	0,6
Visible Defects	TS EN 1850-1	-	-	None
Watertightness	TS EN 1928 (Method A 10kPa)	-	-	Pass
	TS EN 1928 (Method B 60kPa)	-	-	Pass
Reaction to Fire	TS EN 13501-1	-	-	E
External Fire Performance	TS EN 13501-1	-	-	NPD
Flexibility at Low Temperature	TS EN 1109	°C	min	-20
Flow Resistance at Elevated Temperature	TS EN 1110	°C	min	100
Tensile Strength (MD)	TS EN 12311-1	N/50mm	± % 20	1000
Tensile Strength (CD)	TS EN 12311-1	N/50mm	± % 20	800
Elongation at Break (MD)	TS EN 12311-1	%	± % 20	40
Elongation at Break (CD)	TS EN 12311-1	%	± % 20	40
Resistance to Tearing	TS EN 12310-1	N	± % 30	400
Resistance to Impact	TS EN 12691 (Method A)	mm	min	1750
Resistance to Static Loading	TS EN 12730 (Method B)	kg	min	25
Joint Strength	TS EN 12317-1	N/50mm	± % 30	1000
Artificial Ageing Behaviour	TS EN 1296 / TS EN 1928 (Method B 60kPa)	-	-	Pass
Durability Against Chemicals	TS EN 1847 / TS EN 1928 (Method B 60kPa)	-	-	Pass
Dangerous Substances	-	-	-	None
Hydrostatic Pressure	ASTM D5385	m (psi)	≥	70 (100)
Lateral water imigration	ASTM D5385	m (psi)	≥	70 (100)
Peel Adhesion to Concrete	ASTM D903	N/m	-	4590
Adhesion to poured concrete	EN ISO 22631	N/mm	-	3,60