



Bitumen Polyurethane 2K – Technical Specifications

Bitumen Polyurethane 2K is a two-component liquid waterproofing membrane combining modified bitumen with polyurethane resin to create a seamless, flexible, and highly durable protective coating

Qualification	Method	Feature
Coating Type	Clever Lab.	Two-Component Bitumen Polyurethane
Density	ASTM D 1475 / EN ISO 2811-1 (+20°C)	1.00 ± 0.05 g/cm³
Viscosity	ASTM D 4287 (+25°C)	3,500 – 4,500 cP
Mixing Ratio	Clever Lab.	1:1 by volume
Gloss	Clever Lab.	Semi Gloss
Application Temperature	Clever Lab.	+5°C to +35°C
Shock Heat Resistance	Clever Lab.	200°C – Passed
Solid Content	Clever Lab.	High
Hardness	ASTM D2240, DIN 53505, EN ISO 868	35 (Shore A)
Elongation at Break	ASTM D 412 (+23°C)	> 200%
Tensile Strength	ASTM D 412 (+23°C)	≥ 2 N/mm²
Adhesion to Concrete	TSE EN 1542 (+23°C)	≥ 2 N/mm²
Tensile State After 300% Elongation	ASTM D412	< 1%
QUV (UV Resistance)	ASTM G53	1000 Hours – Passed
Service Temperature	Clever Lab.	-40°C to +80°C
Tack Free Time	25°C / 55% RH	2–3 Hours
Recoat Time	Clever Lab.	6–24 Hours
Thermal Resistance	EOTA TR011	Passed (200 days at 80°C)
Chemical Resistance (NaOCl 5%, 10 days)	Clever Lab.	Not Affected
Hydrolysis Resistance (KOH 8%, 50°C, 10 days)	Clever Lab.	Not Affected
Water Absorption (10 Days)	Clever Lab.	< 0.9%