



EnduRoof 2K

**Two-Component: Polyurethane – Bitumen (1:1)
liquid membrane for waterproofing & protection**

Description

EnduRoof 2K is a fast-curing, two-component, bitumen-extended polyurethane fluid. It produces a highly elastic membrane with strong adhesion to many types of surfaces and excellent mechanical and chemical resistance properties. It is based on pure elastomeric hydrophobic polyurethane resin and is extended with chemically polymerized virgin bitumen.

Apply with brush, roller or spatula with minimum consumption of 1.0-1.2 kg/m²

Recommended for Waterproofing and protection of:

- gypsum and cement boards
- polyurethane insulation foams
- asphalt membranes
- EPDM membranes
- bathrooms (under tiles)
- verandas and balconies (under tiles)
- flower pots
- roofs
- light roofing made of metal or fibrous cement
- non-potable water tanks
- basements
- foundations
- bridge platforms
- "cut-and-cover" tunnels
- irrigation channels

Limitations

Not recommended for unsound substrates.

Features and benefits

- Components easily mixed 1:1 by volume.
- Fast curing.
- Thick, bubble-free, membrane possible.
- Being a two-component product means that the quantities not mixed can be stored for later use.
- Its low modulus gives it excellent substrate crack-bridging properties.
- Excellent adhesion on almost any surface, with or without the use of special primers.
- No thinning is required but xylene may be used.
- Excellent thermal resistance, the product never turns soft.
- Max service temperature 80 °C, max shock temperature 200 °C
- Resistance in the cold: the film remains elastic even down to -40°C.
- Excellent mechanical high elongation, tensile and tear strength, high abrasion resistance.
- Good chemical resistance.
- UV resistant.

Water vapor transmission: The membrane breathes so there is no accumulation of humidity under the coat. Can also be used as a joint sealant.



Primer selection for special conditions and substrates

- Humid substrate: AQUA Primer
- Substrate with high porosity: PU Primer.
- Humid substrate with high porosity: AQUA Primer
- Negative pressure or rising humidity (tanks): AQUA Primer
- Steel, galvanized steel, aluminum : AQUA Primer
- Wood: PU Primer
- Asphaltic coat or membrane: AQUA Primer
- Recoating after several days: Universal Primer

Recommendation: When using Universal Primer on non-porous concrete substrates, it is recommended that the primer be thinned with 5-10% xylene prior to use.

Application

Clean the surface using jet water, if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, flaking coatings must also be removed. Fill surface irregularities with the necessary product. Priming: apply the required primer following the guidelines above. Mixing: use a low speed (300 rpm) mixer. Add xylene, 5-10% for application by spraying.

Mixing Mix equal volumes (1:1) of the two components manually or with a low speed (300 rpm) mixer. Apply mixed quantities immediately. Pot life (of mixed quantities): 30-45 min at 20°C.

Application Apply the material with brush, roller or spatula. Can be charged easily with inorganic dry fillers e.g. silica sand.

Consumption

Minimum consumption: 1.0-1.2 kg/m².

Shelf life

Can be kept for 12 months minimum in the original unopened pails in dry places and at temperatures of 5-25 °C. Once opened, use as soon as possible.

Packaging

2 x 5kg, 2 x 20 kg, and 2 x 200 kg drums.

Cleaning

Clean tools and equipment first with paper towels and then using xylene. Do not try to clean rollers.

Safety information

Contains volatile flammable solvents. Apply in well-ventilated, non smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Keep in mind that solvents are heavier than air so they creep on the floor. The MSDS (Material Safety Data Sheet) is available.

Property	Units	Specification
Viscosity (Brookfield) Comp A Comp B Viscosity of the mixture	PCF	1300 4300 3000
Specific weight	gr / cm ³	0.97
Flash point	°C	>4
Track free time 77 de (25°C) & 55% RH	hours	1-2
Recoat	hours	6-24

Property	Units	Specification
Service temperature	°C	-40 à 80
Max. temperature short time (shock)	°C	150
Hardness	Shore A	35
Tensile strength at break at 23 C°	Kg / cm ² (N/mm ²)	>20 >(2)
% elongation 23 C°	%	> 2000
Thermal resistance 200 days at 80 °C		passed
Adhesion concrete	kg / cm ² (N/mm ²)	> 20 (> 2)
Tensile test after 300% elongation	%	< 1
QUV ,accelerated weathering test (4hr UV, aan 60 C°(UVB-Lamps) & 4hr Cond at 50C°)	-	after (1000 hours)
Hydrolysis (8% KOH, 10 days at 50 C°)	-	unaffected
H ² O absorption 10 days	-	<0.9%

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