



EnduRoof

Polyurethane Liquid Membrane for Waterproofing & Protection

Description

EnduRoof is a one component aliphatic polyurethane fluid which cures with the humidity in the atmosphere.

It produces a highly elastic membrane with strong adhesion to many types of surfaces. It contains a small percentage of xylene, and may be thinned with xylene if necessary.

It is based on pure elastomeric hydrophobic aliphatic polyurethane resin plus special inorganic fillers, which result in excellent mechanical, chemical, thermal, UV and natural element resistance properties.

Apply with brush, roller or airless spraying in two, at least, coats with minimum total consumption of 1.2-1.7kg/m². Also recommended for exposed use (light grey).

Recommended for

Waterproofing and protection of:

- tiles
- gypsum and cement boards
- polyurethane insulation foams
- bathrooms
- verandas and balconies
- roofs
- light roofing made of metal or fibrous cement
- asphalt membranes
- EPDM membranes
- tanks
- car parks and stadium stands
- bridge platforms
- irrigation channels.

Limitations

Not recommended for:

Unsound substrates, waterproofing of swimming pool surfaces in contact with chemically treated water, UV exposure in the case of dark colors (black).

Features and benefits

- Excellent adhesion to almost any type of surface, with or without the use of special primers.
- No thinning is required but xylene may be used.
- Excellent weather resistance.
- Excellent thermal resistance, the product never turns soft. Max service temperature 80° C, max shock temperature 200 °C
- Resistance to cold: the film remains elastic even down to -40 °C
- Excellent mechanical properties, high tensile and tear strength, high abrasion resistance.
- Good chemical resistance.
- Non-toxic after full cure.
- Water vapor transmission: the film breathes so there is no accumulation of humidity under the coat.
- Special primers available for almost any substrate.
- Special additive, like ACCELERATOR, is available.



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 AQUA PRIMER following the guidelines above.
- Mixing: use a low speed (300 rpm) mixer. Add xylene 5-10% for application by spraying.
- Apply with roller or brush in two layers.
- Do not leave more than 48 hours between coats.
- If more time passes (more than 4 days) or if you are unsure of the interlayer adhesion, use xylene or MEK 5-10% for application by spraying.

Consumption

First coat: 0.6 - 0.8 kg/m².

Second coat: 0.6 – 0.8 kg/m².

Minimum total consumption: 1.2 - 1.6 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

6kg, 15 kg, 25 kg and 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, no 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.

The product in liquid form (before application)

Property	Units	Specifications
Viscosity (Brookfield)	PCF	3000 – 6000
Specific weight	Gr/ m ³	1.3 – 1.4
Flash point	C	42
Tack free time 77 de (25°C) & 55% RH	Hours	6
Recoat	Hours	6 – 24

Temperature °C	Viscosity (Cp)
10	8900
20	6700
25	4050
30	3500
50	1200

The cured membrane

Property	Units	Specification
Service temperature (Shock)	C	150
Hardness	Shore A	70
Tensile strenght at break at 23°C	Kg / cm ² (N/mm ²)	55 (5.5)
Water vapor transmission	Gr/m ² /hr	0.8
% elongation at 23 C°	%	> 600

% elongation at -25 C°	%	> 450
Thermal resistance (100 days at 80°C)		passed
Adhesion to concrete	kg / cm ² (N/mm ²)	> 20 (> 2)
Tensile test after 300% elongation	%	< 3
QUV ,accelerated weathering test (4hrs UV, at 60 °C (UVB – lamps) & 4 hrs Cond at 50°C	-	After 2000 hours
Hydrolysis (8% KOH, 10 days at 50°C)	-	unaffected

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