

Roof Expert AC

Flexible, water-based acrylic waterproofing membrane for roofs.

APPLICATION AREA	- Flat or inclined roofs - Vents, chimneys - Cupolas and curved roofs - All construction materials (mortar, concrete, brick, stone, existing bitumen sheaths, roof tile, metallic surfaces, etc.)	
ADVANTAGES	- Excellent crack bridging ability - Highly flexible down to -20°C temperature - Highly resistant to UV aging, heat aging and temperature changes - Mechanically stabile and resistant to pedestrian traffic - Very resistant to dirt pick up - No stitches; easy to repair - Resistant to rain already after 2 hour - Walkable already after 4 hours - Ideal flow around chimneys, ventilation exits, dilatations, etc. - Ideal for overbridging joints of different materials - Excellent adhesion on: concrete, wood, old bitumen, steel, etc...	
TECHNICAL DATA	Viscosity Mass density Dry solid content Consistency	33 – 36 Pas (RVT ISO 2555 A6/10/23°C) 1,51 – 1,54 g/cm ³ 78 – 82% paste
APPLICATION DATA	Application temperature Relative air humidity Early rain resistance Walkable Waiting time between two layers Ready for use Withstand light pedestrian traffic	+5°C to +35°C 5% R.H. to 80% R.H. After 2 h at 23°C and 50% R.H. After 4 hour at 23°C and 50% R.H. 8 h at 23°C and 50% R.H. 48 h at 23°C and 50% R.H. Suitable
MECHANICAL PROPERTIES	Elongation at break Tensile strength	min. 320 % (EN ISO 527-3) min. 1,6 N/mm ² (EN ISO 527-3)
FINAL PERFORMANCE	According to EN 1504-2 coating (C) principles PI, MC and IR (thickness 1,0 mm): Adhesion strength by pull-off test ≥0,8 N/mm ² (EN 1542) Water vapour permeability Class I; sd=1,64 m (EN ISO 7783-1) Capillary absorption and permeability to water <0,1 kg/m ² x h ^{-0.5} (EN 1062-3) Permeability to CO₂ sd >50 m (EN 1062-6) Thermal compatibility ≥0,8 N/mm ² (EN 13687-1) Crack bridging Class A4 (EN 1062-7)	
SUBSTRATE PREPARATION	Clean the substrate from any loose pieces, as well as peeled off paints and oils. The substrate must be free of moisture and standing water. Concrete and mineral substrates must be solid and dry with no rising damp. Any loose parts must be removed. Any hollows in the surface must be repaired with Expertan RM 02. Prime the surface with Roof Expert C primer. Bituminous membranes - carefully hydro-blast the surface and wait until the water has drained before applying Roof Expert AC. Remove any loose and damaged parts of the surface. Prime the surface with a coat of Roof Expert AC diluted with 10% of water. Metal substrates - must be free of corrosion. Undamaged galvanized zinc must be thoroughly clean and mechanically activate. Prime the surface with Roof Expert M primer. Brush the painted surfaces to bright	

	metals to remove dust deposits and oxidation. Prime the damaged metal surfaces with Roof Expert MC anti-corrosive pimer.			
APPLICATION INSTRUCTIONS	It is necessary to mix each container of Roof Expert AC with low power agitator to insure uniform consistency and color. Apply two layer of Roof Expert AC with a roll, brush or airless. Each layer is applied crosswise after the previous has been dried (see table below: Waiting time/Overcoating). Additional layer should be applied as soon after the initial coat is tack free and dry to avoid contamination. On surfaces with many and dense cracks, it is recommended to fully reinforce the surface using Roof Expert REFORCE 50, glass fiber mat fabric in a width of 1m. Bituminous membranes - we recommend to use Roof Expert REFORCE 50 between two layers of Roof Expert AC. Apply first coat of Roof Expert AC. Work only so far in advance that the material stays liquid. Roll in the reinforcement fabric. Overlap the fabric a minimum 5 cm and ensure overlaps are sufficiently wet to bond both layers. The roller may require a little extra material to keep wetted but no further significant material needs to be added on this stage. After the coat is dry enough to walk on, seal the roof area with second coat of Roof Expert AC.			
RECOMMENDATIONS	• Lower temperatures and/or high humidity conditions will retard the cure. • Do not apply if weather conditions will not permit cure before rain, dew, or fog. • Do not apply in the late afternoon if heavy moisture condensation or rain may occur during the night. • If it rains between one coat and another of Roof Expert AC, wait at least 12 hours before applying the next coat, and only if there is no residual moisture. • Impact of heavy rain or rain showers can physically damage the still liquid membrane. • Do not apply Roof Expert AC on substrates with a residual humidity level of > 2.5% or on substrates with rising damp. • Do not dilute Roof Expert AC with any solvent. • On substrates likely to exhibit outgassing, apply during falling ambient and substrate temperature. If applied during rising temperatures “pin holing” may occur from rising air. • Do not apply Roof Expert AC on painted metal substrates. • Do not use on bituminous membranes that have only recently been applied (< 6 months). Always wait until the surface to be treated has completely oxidised. • Mortar based joints must be sound and solid and possibly at the same level. Repair missing parts of joints and wash them well. • Do not apply cementitious products, such as tile mortar directly onto Roof Expert AC.			
WAITING TIME / OVERCOATING	Ambient conditions		Minimum waiting time	
	+5°C / 50% r.h.		20 h	
	+15°C / 50% r.h.		10 h	
	+23°C / 50% r.h.		8 h	
	Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. The times indicated are for a one coat.			
APPLIED PRODUCT READY FOR USE	Ambient conditions	Touch dry	Rain resistance	Full cure
	+5°C / 50% r.h.	12 h	18 h	96 h
	+15°C / 50% r.h.	3 h	5 h	72 h
	+23°C / 50% r.h.	2 h	3 h	48 h
	Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. The times indicated are for a one coat.			
CLEANING	All tools and application equipment must be cleaned thoroughly and immediately after their use with plenty of water.			
SPREADING RATE	0,25 – 0,30 kg/m² as a primer 0,4 – 0,8 kg/m² – protective finish 3 kg/m² – waterproof coating The consumption rates indicated are for a seamless film on a flat surface and could be higher on uneven substrates and according to the absorbency of the substrate.			

PACKAGING	Plastic container à 5 kg, 20 kg
COLORS AVAILABLE	Roof expert AC is produced in white shade and TR base. It is tinted on Chromomix and HGmix machines.
STORAGE	In dry and good ventilated space at temperatures from +5°C to +30°C Shelf life: 24 months. Keep from freezing and direct sun light.

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