TECHNICAL DATASHEET

AQUA FLEX SG500

Polyhybrid, elastomeric, liquid waterproofing membrane for flat roofs with timeless whiteness

Description

AQUA FLEX SG500 is a polyhybrid, elastomeric, water-based liquid waterproofing membrane for flat roofs, formulated with a blend of resins, featuring timeless whiteness and durability. It has excellent adhesion to a variety of substrates including concrete, wood, metal and most types of existing waterproofing membranes, and is applicable even on irregular substrates. After curing, it forms a continuous, elastic, waterproof and vapor-permeable membrane, without seams or joints.

Offering:

- High elasticity
- High resistance to weather and aging
- Timeless whiteness and high solar reflectance
- Building energy efficiency improvement by decreasing the roof surface temperature
- Resistance to ponding water

Certified according to EN 1504-2 and classified as a coating for surface protection of concrete. CE marked. Certificate No.: 2032-CPR-10.11.

Fields of application

AQUA FLEX SG500 is ideal for waterproofing flat roofs, curved roofs, etc. It constitutes a simple and safe waterproofing solution for roof details such as corners, edges and joints between different adjacent materials, as well as for isolated cracks. Thanks to its high solar reflectance, it can also be used as a cool-roof coating.

Technical data

Color	White
Density	1.39 ± 0.02 kg/l
Elongation at break	350% EN ISO 527
Capillary water absorption	0.01 kg/m²·$h^{0.5}$ EN 1062-3 — requirement of EN 1504-2: w < 0.1 kg/m²·$h^{0.5}$
Water vapor permeability	Sd = 0.40 m EN ISO 7783-2, vapor-permeable Class I, Sd < 5 m
Adhesion strength	2.9 N/mm² EN 1542 — requirement for flexible systems with no traffic: 0.8 N/mm²
Artificial weathering	Pass (no blistering, cracking or flaking) EN 1062-11, after 2000 h
Reaction to fire	Euroclass F EN 13501-1
Minimum application temperature	+5°C
Service temperature	−25°C to +80°C EN 23894
Viscosity	≈ 30,000 mPa·s EN ISO 2884-1
Drying time at +20°C	2 h (touch dry) EN ISO 2811-1
Recoat time at +20°C	20 h (touch dry) EN ISO 2811-1

Directions for use

1. Substrate preparation
The substrate must be dry, clean, free of grease, loose particles, dust, etc. Any existing cavities in concrete should be repaired in advance. The substrate is then primed with the special primer **ISO-PRIMER**, with a consumption of approx. 200 g/m².

2. Application – Consumption

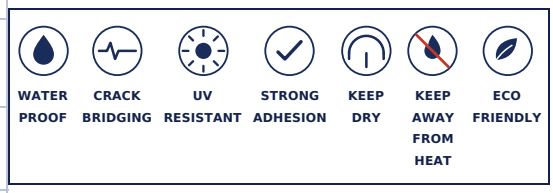
a) Full-surface waterproofing
As soon as the primer has dried, **AQUA FLEX SG500** is applied by brush or roller in two layers, with a consumption of 0.5–0.75 kg/m²/layer, depending on the substrate. The second layer should be applied crosswise, after the first one is dry and walkable.

In areas of severe cracks, it is recommended to locally reinforce **AQUA FLEX SG500** with a 10 cm wide strip of fiberglass mesh (65 g/m²) or polyester fleece (30 g/m²) along the cracks. After the primer has dried, a layer of **AQUA FLEX SG500** is applied along the cracks and, while still fresh, the strip is embedded lengthwise. Two extra layers of **AQUA FLEX SG500** are then applied over the entire surface.

Where dense, multiple cracks appear across the surface, it is strongly recommended to fully reinforce the membrane with 100 cm wide strips of fiberglass mesh (65 g/m²) or polyester fleece (30 g/m²), overlapping by 5–10 cm, followed by two extra layers of **AQUA FLEX SG500** over the entire surface.

Consumption: 2.0–2.5 kg/m², depending on the substrate and the type of reinforcement.

b) Local waterproofing of cracks
Cracks are primed with **ISO-PRIMER**; once dry, a layer of **AQUA FLEX SG500** is applied along the cracks and, while still fresh, a 10 cm wide strip of fiberglass mesh (65 g/m²) or polyester fleece (30 g/m²) is embedded lengthwise. One more layer of **AQUA FLEX SG500** is then applied over the reinforcement.
Consumption: 0.3–0.5 kg/m (for a 10 cm wide strip).



NET CONTENT
15 kg
(WHEN PACKED)

FOR BEST RESULTS
APPLY 2 COATS
brush or roller application