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CP 30
Aquablock Coating

Aquablock Waterproofing Coating

Elastic, one-component silicone-rubber thick coating for waterproofing roofs

PROPERTIES

- ▶ UV-resistant and weatherproof
- ▶ Water vapor permeable
- ▶ Permanently flexible at low temperatures
- ▶ Sprayable
- ▶ Easy cleaning of tools with water

SCOPE OF USE

Solvent-free, ready-to-use silicone rubber emulsion for the seamless and crack-bridging surface protection and waterproofing of roof areas. Certified as a waterproofing coating in compliance with ETAG 005.
Especially suited for the reconstruction and repair of leaks, roof connections and pipe penetrations.

Applicable on:

– Mineral substrates, e.g. concrete, screed, fiber cement boards, roof tiles
– Bituminous substrates, e.g. roofing membranes and coatings
– Acrylic roof coatings
– Metals, e.g. copper, zinc aluminum, stainless steel, brass
– Plastics, e.g. connections to ventilation pipes, drains or skylight frames
– Thermal insulation layers made, e.g. of PUR, EPS
– Wooden materials, e.g. solid wood, OSB, plywood

CP 30 Aquablock Coating is also suitable for zero slope roofs if used with a dry layer thickness of at least 2 mm.
No additional UV protection or gravel covering is required.
SilicoTec Coating remains resistant to diluted acids and alkaline only when exposed to them for a short time.

SUBSTRATE PREPARATION

The substrate must be sound, clean, free of dust and grease as well as dry or only slightly damp (max. 5 % residual moisture). Mechanically remove moss, algae and lichen as well as loose particles and coatings.

Absorbent substrates:

Mineral substrates and wood have to be cleaned mechanically. Only green concrete (< 6 months) and slightly powdery substrates have to be pretreated with CP 29 Aquablock Primer.

Bitumen:

Bituminous substrates must have a minimum age of 6 months to avoid interaction with the SilicoTec waterproofing coat.
Cut open any blisters in the existing bituminous materials, clean them and fill the depressions e.g. with flexible slurry or with a torch-on membrane.
When coating old bitumen membranes, thoroughly remove any loose stone chips and sand as well as the weather-worn bitumen. After that, prime the surface with CP 29 Aquablock Primer.

Metals:

Mechanically remove corroded spots as well as any loose paint coats on metals. Completely remove any oxide layers (patina) and clean with a solvent-based cleaner e.g. spirit.
A priming coat is not required.

Plastic materials:

After mechanical roughening clean the plastic materials with a solvent-based cleaner, e.g. spirit. Then pretreat with CP 29 Aquablock Primer. Contact us before using CP 30 Aquablock Coating on plastic or elastomeric roofing membranes.

PUR-/EPS-boards:

Thermal insulation boards made from polyurethane or extruded polystyrene have to be clean from release agents. Very smooth surfaces have to be roughened slightly and after cleaning the grinding dust apply CP 29 Aquablock Primer.
Any screwed connections, pipe penetrations, butt joints, overlapping edges, upstands and parapets as well as connections to vent pipes and skylight frames must be precoated with CP 30 Aquablock Coating. After embedding CP 28 Aquablock Vlies, the second sealing coat is applied.
In the case of old, asbestos-containing roofing materials make sure to observe the corresponding regulations.

APPLICATION

CP 30 Aquablock Coating is ready-to-use and can be applied directly by means of a paint brush, roller, ceiling brush or by using the airless spraying technique. Priming coat – if applied – must be completely dry before the application of the silicone-rubber coating.

Surface protection

When using CP 30 Aquablock Coating on still tight roofs only as a protection layer against UV radiation and weathering, a wet layer of 1.0–1.5 mm thickness is sufficient.
The seams and joints of bituminous roofing membranes or fiber cement boards must first be covered with CP 30 Aquablock Coating. The final coat can be applied after a drying time of 10–12 hours, or longer depending on the weather.

Sealing coat

When using CP 30 Aquablock Coating for waterproofing according to the requirements of ETA, it is necessary to apply two layers with CP 28 Aquablock Vlies embedded into the first layer. The first layer is applied onto the prepared and, if necessary, primed substrate with a wet layer thickness of 1 mm. CP 28 Aquablock Vlies should then be rolled and pressed into the freshly coated surface, free of blisters and folds, with an overlap of 10 cm. Always align the overlapping seams in the direction of water flow. Apply only as much CP 30 Aquablock Coating as can be covered with CP 28 Aquablock Vlies before a start of skin formation.
Soak a short-pile roller in CP 30 Aquablock Coating and roll the fleece down into the first coat so that it is fully embedded.
Wait until the first layer has fully dried (waiting time approx. 24 hours, sometimes longer depending on the weather) before applying the second coat. Check whether the coat is ready for foot traffic.

Walkways for roof inspection and maintenance

After complete drying of the applied waterproofing coat, it is possible to install additional walkways on the surface with the help of CP 30 Aquablock Coating top coat. It is recommended to use a contrasting color for these areas and a layer thickness of 1.0 mm. Sprinkle quartz sand (e.g. grit 0.1–0.4 mm) into the fresh top coat of the service walkways to prevent slipping.

IMPORTANT INFORMATION

- Use CP 30 Aquablock Coating only in dry weather with material and air temperatures of +10 °C to +30 °C and below 75% relative air humidity
- The substrate temperature must be between +5 °C and +50 °C. When working in cold weather, make sure that the substrate temperature is at least 3 °C above the thaw point; otherwise a separating moisture film will form
- Tools can be cleaned and product residues removed with water when still fresh
- Use up open buckets quickly
- When using CP 30 Aquablock Coating on substrates with an excessive amount of residual moisture, blisters may form in the waterproofing coat. This does not impair the tightness of the coating and therefore does not qualify as a product defect.
- Do not use CP 30 Aquablock Coating on transparent plastics (e.g. Plexiglas®, Makrolon®, PETG) used e.g. for domelights/skylights.
- Do not use Aquablock for internal coating of plant containers (e.g. pots, troughs), tanks or swimming pools.
- If the substrate temperature exceeds 30°C and if there is direct sunlight, apply CP 30 Aquablock Coating in several thin layers (max. 1 mm) and allow the coat to dry completely before applying the next layer. Otherwise, blisters may occur.
- If the rainwater accumulating on the roof is to be used for watering of the plants or to be discharged into fishponds, the roof must be cleaned thoroughly with plenty of water after the waterproofing coat has completely dried

Additionally please refer to CP30 Aquablock Waterproofing System Technical Handbook.
Please refer to Material Safety Data Sheet for additional information on product safety and disposal requirements.

TECHNICAL DATA

Basis:	silicone
Colors:	grey and black
Required amount:	1.3 kg/m² per mm (wet)
Wet layer thickness: – as UV/surface protection – as waterproofing coat – for zero slope roofs	 1.0 to 1.5 mm min. 2.0 mm min. 3.0 mm
Rain-resistant after*:	3–7 hours
Drying time*:	2 mm / 24 hours
Water vapor diffusion coefficient (μ):	approx. 1200
Sd-value (2 mm thick):	approx. 2.4 m
External fire performance (acc. to EN 13501-5):	B_{roof} (t1) for various substrates (please contact us for more information)
Shelf life:	24 months if stored in the original closed bucket in a cool, frost-free and dry place

* Skin formation and drying time depend on temperature and humidity of the air and substrate.

Should you need support or advice, please consult our advisory service for architects and craftsmen.
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ETAG 005: 2004

Liquid applied roof waterproofing kits

External fire Performance DIN EN 13501-5	B_{roof}(t1)
Reaction to fire DIN EN 13501-1	E
Working life	W2
Climatic zones	M, S
Imposed loads	P1-P2
Roof slope	S1-S4
Lowest surface temperature	TL3
Highest surface temperature	TH3

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