

CP 30

CE
ETA-08/0298



Silicone 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 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.
CP 30 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.

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.



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. Contact us before using CP 30 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.

Any screwed connections, pipe penetrations, butt joints, overlapping edges, upstands and parapets as well as connections to vent pipes and skylight frames must be pre-coated with CP 30. After embedding CP 28, 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 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 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. 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 for waterproofing according to the requirements of ETA, it is necessary to apply two layers with CP 28 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 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 as can be covered with CP 28 before a start of skin formation. Soak a short-pile roller in CP 30 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 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 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 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 on transparent plastics (e. g. Plexiglas®, Makrolon®, PETG) used e. g. for domelights/skylights.
- Do not use CP 30 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 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

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations. The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23 °C and 50 % relative air humidity unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.

roof must be cleaned thoroughly with plenty of water after the waterproofing coat has completely dried
Additionally please refer to SilicoTec Waterproofing System Technical Handbook.

Please refer to Material Safety Data Sheet for additional information on product safety and disposal requirements.

WASTE DISPOSAL ADVICE

Dispose of cured product residues as household waste/industrial waste similar to household waste. Dispose of remaining uncured product and its container to hazardous or special waste collection point.

The European waste code numbers (EEC) can be obtained from the manufacturer.

TECHNICAL DATA

Basis:	silicone
Required amount:	1.3 kg/m ² per mm (wet)
Wet layer thickness:	
– as UV/surface protection	1.0 to 1.5 mm
– as waterproofing coat	min. 2.0 mm
– for zero slope roofs	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
Reaction to fire (acc. to EN 13501-1):	Class E
External fire performance (acc. to EN 13501-5):	B _{roof} (t1) for various substrates (please contact us for more information)
User load:	P1 to P2 depending on the substrate
Minimum surface temperature:	TL3 (–20 °C)
Maximum surface temperature:	TH3 (80 °C)
Climatic zone:	M and S
Slope:	S1 to S4
Working life:	W2 (10 years)
Shelf life:	18 months if stored in the original closed bucket in a cool, frost-free and dry place
VOC:	EU VOC limit value for this product (cat A/i): 140 g/l (2007); 140 g/l (2010). This product contains max. 5 g/l.

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

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