

MicroSilicon Elast

Elastic silicone resin facade paint

- permeable to water vapour
- for cracked facades / renovation coatings
- cold-elastic paint



Product description:

elastic silicone resin facade paint, mat, water-dilutable, weather resistant according to German VOB DIN 18 363.

Application / Property:

Usable for crack group A (plaster surface cracks, cracks through plaster layers) and crack

group B (cracks at butt and horizontal joints, cracks due to modification) according to BFS

Data Sheet no. 19 „Risse in Außenputzen, Beschichtung und Armierung“.

Characteristics:

- cold elasticity below 0°C
- crack bridging
- capillary hydrophobic
- permeable to water vapour
- low voltage
- mineral matte
- weather resistant
- fast back-drying of the facade

Technical product data:

- Binder basis: silicone resin combination / special polymer
- Density: approx. 1.4 g/m³ (standard white)
- pH- approx: ca. 8
- Water absorption coefficient according to DIN EN ISO 1062-3:
w-Wert = 0,04 kg/ (m² x h_{0,5}) W₃
- Water vapour diffusion resistance according to DIN EN ISO 7783-2:
sd-H₂O-Wert = 0,2 m V₂

Colour:

white as well as a range of colour shades that can be obtained with the colour matching hawo mix system

Packing size:

Standard: 12.5 l
mix: 2 ltr, 6 ltr, 12,5 l

Application:

Rolling, painting or airless injection.
Spray processing with airless devices: depending on the device type undiluted to about 10% water.
Nozzle size: bore 0. 021 – 0. 026”
Spray angle: 50°
Injection pressure: 150 – 180 bar

Tinting:

with the colour matching system hawo mix
Self tinting is possible with MIXOL Universal tinting concentrate. To avoid colour differences, mix the required total quantity.

Coating structure:

- Basic paint: Priming absorbent surfaces with hawo MicroSilicon Deep Ground (MicroSiliconTiefgrund TM Nr 096).
- Intermediate paint: For plaster surface tears A1: a coating with undiluted MicroSilicon Elast facade paint.
Cracks going through plaster layers A2: A coat with hawo RissGrund (note TM No. 650).
- Final paint: Paint with undiluted MicroSilicon Elast facade paint. Two coats are generally required for optimum crack bridging.
Crack bridging according to DIN EN 1062 Crack class/coating:
A1 (>100 µm) 1 x 200 ml MicroSilicon Elast
A2 (>250 µm) 2 x 200 ml MicroSilicon Elast
B (> 500 µm) 1 x 700 ml RissGrund 2 x 200 ml MicroSilicon Elast
- For renovation coatings on well-adherent silicone- or silicate-paints, old dispersion paint coatings and synthetic resin coatings.

Processing temperature:

not below +5 °C (air and object)

Spreading rate:

ca. 200 ml/m² per coat.
Consumption rates depend on the surface and have to be determined by trial coating on the object.

Drying:

At + 20 °C and 65% relative humidity, the coating is surface dry and can be painted over after approx. 8 – 10 hours, and dried through after 2 – 3 days. At lower temperature and/or higher humidity, the drying time is prolonged.

Substrates:**Requirements:**

The substrate must be clean, dry and durable. MicroSilicon Elast is not suitable for horizontal surfaces with water contamination. Pre-treatment: The general guidelines for plastic dispersion paints apply to the pre-treatment of the substrate. Refer to VOB Part C, DIN 18 363.

Priming suction substrates with MicroSilicon Deep Ground. Clean areas contaminated with algae and fungi in compliance with legal regulations. After drying, work hawo Anti-fungus into the surfaces with a brush and let dry, do not rinse.

Cleaning of tools:

after use with water.

Processing instructions:

hawo MicroSilicon Elast is factory equipped with a film preservation against algae and fungal infestation and should therefore only be used outdoors. The preservatives used minimise or delay the algae or fungal risk. Facade paints equipped with film preservation must be applied in a sufficient layer thickness, we recommend at least two coatings. According to the state of the art, it is not possible to guarantee a permanent absence of algae and fungal infestation (see FSO leaflet No 9, Section 6. 1, last paragraph). During cold wet seasons shortly after application water soluble particles of the coating not dried through could be dissolved because of the interaction of high air humidity, fog or rain and temperature decrease (especially during cool and wet evening and morning hours).

These are for example tensides, emulsifiers, protective colloids or other additives, which are necessary to reach special quality characteristics of the coating. In case of these drains, which mostly appear as sticky glossy spots, the surface should not be reworked directly. The water-dilutable drains will be washed off by further moisture (for example after several rainfalls). If a direct rework is planned however, the drains have to be washed off thoroughly with water before applying another coating.

This phenomenon, which only occurs in case of unfavourable weather conditions, is state-of-the-art technology and cannot be avoided. This is only a temporary optical lack but has no impact on the protective function of the coating.

Storage and transport:

Store in a cool but frost-free place, close the opening container tightly. No special protective measures are required during transport.

Disposal:

Only empty containers are to be recycled. Dried material residues can be disposed of as construction site waste or with household waste. Dispense containers with liquid material residues at a collection point for used lacquers.

Please note:

Keep out of the sight and reach of children. In case of contact with eyes, rinse immediately with water. Do not inhale the spray mist during spray processing. Ensure adequate ventilation during processing and drying. Avoid eating, drinking and smoking during processing. Do not allow to enter sewerage, water or soil

VOC content according to Annex II of the VOC Directive 2004/42/EC VOC limit value Annex II A (subcategory c) Wb: max. 40 g/l according to Stage II (2010) VOC content of MicroSilicon Elast: max. 40 g/l

The above information has been compiled professionally and is intended to advise, inform and support the processor. Our recommendations are only general because of the versatility of the application areas over which we have no influence and the diversity of the substrates. A legally binding obligation is therefore excluded. That tech. The leaflet loses its validity in the event of a new edition.