

SILIKAL® R 69 C resin

Reactive, slightly elastified resin for the Silikal decor flooring
(certified according to AgBB assessment scheme)



Expect more from your floor.

SILIKAL® R 69 C resin is a medium-viscosity methacrylic resin being used as a decor flooring system on top of unicoloured Silikal self-leveling coatings. In combination with the corresponding filler SILIKAL® filler CL, SILIKAL® R 69 C resin is applied in thickness of 1 to 1.5 mm. SILIKAL® R 69 C resin is certified to AgBB assessment scheme.

Application

SILIKAL® R 69 C resin is used as a binder in manufacturing decor-floorings. A mixture of SILIKAL® R 69 C resin and SILIKAL® filler CL is prepared and applied on top of the already prepared, unicoloured self-leveling coating based on SILIKAL® R 63 resin (alternatively SILIKAL® R 62 resin). The recommended base-colour of the flooring should match approx. RAL 7023 or RAL 7030.

Special advice

The application of the decor-flooring must be performed by irregular trowelling und slightly irregular thickness in order to achieve the desired concrete look.

The resulting decor flooring must always be considered as one of a kind, due to the fact that it is strongly influenced by the applicator's handcraft. After curing the decor flooring is top-coated with SILIKAL® R 73 resin (alternatively with SILIKAL® R 72 resin). In this case the irregular application technique (irregular stripes) is also true for the top-coat. The quantity of top-coat must be 600 g/m² at least.

Guideline recipe and batch quantities

| Item | Component | Guideline recipe (% by weight) | Comments | Batch for 30 litre bucket | |
|------|---------------------------|-----------------------------------|--|------------------------------|------------------------------|
| | | | | | |
| 1 | SILIKAL® R 69 C resin | 50 % | | 15 kg | 15 litres |
| 2 | SILIKAL® filler CL | 50 % | | 15 kg | 9.4 litres |
| | Total: | 100 % | Average consumption: 2.5 kg/m² | 30 kg | approx. 20 litres |
| 3 | SILIKAL® Hardening Powder | 1.5 – 4 % related to item 1 | See "Hardener dosages" table for quantities | 225 – 600 g | |

It is always necessary to use complete bags of SILIKAL® filler CL for the mixtures!

Characteristics of R 69 C as delivered

| Property | Measuring method | Approx. value |
|--|------------------|------------------------|
| Viscosity at +20 °C | DIN 53 015 | 350 – 500 mPa · s |
| Flow time at +20 °C, 6 mm cup | DIN 53 211 | 58 – 70 sec. |
| Density D ₄ ²⁰ | EN ISO 2811-2 | 0.98 g/cm ³ |
| Flash point | DIN 51 755 | +10 °C |
| Pot life at +20 °C (100 g, 2 % pbw. hardening powder) | | 12 – 15 min. |
| Application temperature | | +10 °C to +30 °C |

Characteristics of R 69 C in the hardened state

| Property | Measuring method | Approx. value |
|----------|------------------|------------------------|
| Density | DIN 53 479 | 1.15 g/cm ³ |
| Shore-D | DIN 53 505 | 70 – 80 units |

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Silikal product information

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Hardener dosages

| Temperature | Hardening powder % pbw. * | Pot life approx. min. | Hardening time approx. min. |
|-------------|------------------------------|--------------------------|--------------------------------|
| +10 °C | 4.0 | 15 – 20 | 45 – 60 |
| +15 °C | 3.0 | 12 – 15 | 40 – 45 |
| +20 °C | 2.0 | 12 – 15 | 40 – 45 |
| +25 °C | 1.5 | 10 – 12 | 30 – 40 |
| +30 °C | 1.5 | 10 – 12 | 30 – 40 |

* The quantity of hardening powder is always related to the quantity of resin.

👁 For further information, please refer to the separate product information sheet "SILIKAL® Hardening Powder".

Delivery form

- 25 kg units
- 180 kg units

Special advice

Silikal methacrylic resins are fire-hazard and are subject to labeling obligation. Adequate air inflow and outflow must be provided during the application. Foodstuff must always be stored elsewhere in consultation with the operator, as these can very quickly absorb the odour or taste. You must also ensure that sufficient time is allowed after the coating work for post-ventilation so as to get rid of any existing residual vapours before goods are brought back in.

| CE | |
|---|--------------------|
| SILIKAL GmbH · Ostring 23 · 63533 Mainhausen · Germany | |
| 10 ¹⁾ | |
| R 69C - 001 | |
| EN 13813 SR-AR1-B1,5-IR4 | |
| Synthetic resins for internal uses | |
| (Application in accordance with the newest technical information) | |
| Reaction to fire: | E _# |
| Release of corrosive substances (Synthetic Resin Screened): | SR |
| Water permeability: | NPD ²⁾ |
| Wear resistance (Abrasion Resistance): | AR 1 ³⁾ |
| Bond strength: | B 1,5 |
| Impact resistance: | IR 4 |
| Sound insulation: | NPD ²⁾ |
| Sound absorption: | NPD ²⁾ |
| Thermal resistance: | NPD ²⁾ |
| Chemical resistance: | NPD ²⁾ |

CE-labelling

¹⁾ Last two digits of the year in which the ce marking was affixed.

²⁾ NPD = No performance determined.

³⁾ Refers to a smooth surface without broadcasting.

| 👁 | Other applicable documents | Data sheet | Page |
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