In areas in which significant impact stresses are expected, in cold stores and outdoors where temperature influences vary sharply, coating materials such as **SILIKAL® RV 368 resin** which are designed to be impact-resistant and elastic should be used. Assuming that the coat is sufficiently thick, any sudden forces that occur can be better absorbed in this way. The recommended total thickness of the coating is approx. 5 – 7 mm (2 – 4 mm by request).

Substrate / priming

Possible substrates include concrete, cement, asphalt and ceramic tiles. Outdoor asphalt surfaces must **not** be coated. After they have been suitably prepared, cement substrates are primed with **SILIKAL® R 51 resin**. Before hardening, **SILIKAL® Filler QS,** particle size 0.7 – 1.2 mm, can be dispersed loosely into the fresh primer coat. On asphalt the primer used must be **SILIKAL® RU 727 resin**. (It is recommended that you consult Silikal in any case.) On ceramic tiles an additional 0.3 % pbw. of **SILIKAL® Additive M** must be added to the **SILIKAL® RU 727 resin** primer. On tiles, and if the concrete/screed surface is very rough, it is recommended that the surface is additionally smoothed off with the elastic **SILIKAL® RV 368 resin**, filled with **SILIKAL® Filler SL** in a 1 : 2 ratio scratch slurry. This enables joints or hollows to be levelled out. Consumption is between 2 and 5 kg/m², depending on the depressions in the substrate.

Consumption: Primer approx. 300 – 400 g/m²

Main coat

The main coat comprises a self-levelling formulation of **SILIKAL® RV 368 resin**, mixed with **SILIKAL® Filler** according to the recipe indicated in the data sheet (3. Self-levelling coating 4 – 7 mm). The thickness of the coat is usually 1 mm less than the required total thickness of the system, since **SILIKAL® Filler QS** of particle size 0.7 – 1.2 mm is additionally sprinkled into the main coat.

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Decorations / Top coat

Variant 1: Pigmented smooth (for use at temperatures from 0 °C to +35 °C only)

Once the excess sand has been brushed / vacuumed away, a self-levelling thin coating made from **SILIKAL® R 62 resin** filled 1 : 1 with fine filler according to the recipe indicated in the data sheet is applied to the main coat. Then the surface is applied with **SILIKAL® R 72 resin** (pigmented with 10 % pbw. of **SILIKAL® Pigment Powder**).

Consumption:	**Thin coating 1.5 mm**	**2 kg/m²**
	Top coat	**approx. 400 g/m²**

Variant 2: Coloured flakes smooth (for use at temperatures from 0 °C to +35 °C only)

Once the excess sand has been brushed / vacuumed away, a self-levelling thin coating made from **SILIKAL® R 62 resin** filled 1 : 1 with fine filler according to the recipe indicated in the data sheet is applied to the main coat. Before hardening, **SILIKAL® Coloured Flakes** are thoroughly sprinkled into the thin coating. Once the excess flakes have been brushed / vacuumed away, the coat is applied with colourless **SILIKAL® R 62 resin**. After the first top coat the surface is grinded with sand paper and then applied with **SILIKAL® R 72 resin** again.

Consumption:	**Thin coating 1.5 mm**	**2 kg/m²**
	Coloured flakes	**approx. 500 – 600 g/m²**
	1st top coat	**approx. 500 g/m²**
	2nd top coat	**approx. 400 g/m²**

Variant 3: Pigmented non-slip

Once the excess sand has been brushed / vacuumed away, the main coat is initially applied once, depending on the desired slip resistance, with **SILIKAL® R 62 resin** (pigmented with 10 % pbw. of **SILIKAL® Pigment Powder**). To ensure that they are easier to keep clean, areas which are not exposed to temperatures of use below 0 °C can be given a further sealing coat of **SILIKAL® R 72 resin** (pigmented with 10 % pbw. of **SILIKAL® Pigment Powder**).

Consumption:	**1st top coat**	**approx. 500 g/m²**
	2nd top coat (optional)	**approx. 400 g/m²**

Variant 4: Coloured quartz non-slip

Here **SILIKAL® Filler FS** is sprinkled over the main coat in the same grading line instead of **SILIKAL® Filler QS**. Once the coat has hardened and the excess sand has been brushed / vacuumed away, the top coat **SILIKAL® R 62 resin** is rolled on in 1 – 2 coats, depending on the desired slip resistance. If the temperatures of use are above 0 °C, a further top coat of **SILIKAL® R 72 resin** can be rolled on to make the surface easier to keep clean.

Consumption:	**1st top coat**	**approx. 500 g/m²**
	2nd top coat (optional)	**approx. 400 g/m²**

Please refer to the data sheets for the relevant Silikal resins for the guideline recipes, material consumption, hardener quantities etc.

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