

SILIKAL® RM Area Grip Base

3-component roller-applied surface marking

(liquid / pigment powder / peroxide powder)



SILIKAL® RM Area Grip Base is a solvent-free, rapid-curing (< 40 min) roller-applied marking to be coloured using pigment powder for durable and non-slip outdoor surfaces. A variety of SILIKAL® pigment powder mixtures are available in approx. RAL colours.

Typical areas of use include bicycle lanes or coloured surfaces that are outdoors. SILIKAL® RM Area Grip Base is thixotropic to ensure that the texture imprinted by the paint roller is retained. The cured structured coating has a coating thickness of approx. 2 mm. It has a low dirt pick-up thanks to the plasticiser-free, crosslinked yet still flexible resin based on MMA. The coating is suitable for direct application on asphalt or with primer for cement substrates. The application can be performed in a temperature range from +5 °C to +40 °C.

Application

Areas of application

- Outdoor surfaces such as bicycle lanes or parking lots. Local regulations must be taken into consideration.

General

- All specified substrates must be dry, free of dust and oil, and free of loose constituents.
- The substrate must have sufficient load-bearing capacity. Old markings must be removed where necessary.
- Processing must not be performed on wet substrates. The substrate temperature must be 3 °C above the dew point during application – please use a dew point table.
- Test markings have to be performed to check the curing and the adhesion to the substrate.

Bituminous substrates

The product is applied directly to the substrate. This should be dry and free of dust and oil. New bitumen coatings should be weathered for longer than 6 weeks. Otherwise the adhesion may be impaired and discolouration may occur. In rare cases, bitumen with high proportion of short-chain oils are used. The liquid component of the coating causes the bitumen to swell up in this case and the coating cannot complete its reaction. For this reason, coating tests should generally be performed (30 cm line) and the adhesion checked after 1 hour.

Concrete or cement-bonded substrates

Any constituents of the surface that impair adhesion (e.g. fine mortar, cement laitance or the like) must be removed using suitable methods (e.g. milling or high-pressure water jets). The type of concrete and the curing conditions determine whether the surface must be stripped and to what depth. Concrete or cement-bonded substrates must first be primed. We recommend SILIKAL® RU 380 resin for the primer. The substrate should not exceed a residual moisture content of 4 CM %. Coating tests – with primer – should generally be performed (30 cm line) and the adhesion should be checked after 1 hour.

Application

SILIKAL® RM Area Grip Base is applied using commercially available paint rollers. SILIKAL® RM Area Grip Base is thixotropic so that material accumulation is retained. The nap covering of the roller therefore defines the structure of the marking. We recommend solvent-resistant rollers with medium length nap.

The borders of the coating should be set using wide adhesive tape (≥ 10 cm). Mixer should be selected so that stirring is possible without the inclusion of air. This is generally the case when a completely immersed mixing head turns directly above the base of the container without generating a vortex that sucks in air. Dispersion discs are to be given preference over spiral mixing paddle.

SILIKAL® RM Area Grip Base (component A) must first be stirred as the fillers it contains settle during storage and transport. The pigment powder (component B) is then homogenised for 2 min with SILIKAL® RM Area Grip Base (component A). The hardening powder (component C, see hardener dosage table for quantity to use) is then added while mixing and mixed in for at least another 60 seconds.

The pot life begins with the addition of the hardening powder. The activated SILIKAL® RM Area Grip Base is poured onto the surface, initially spread with squeegees if necessary and then rolled to a thickness of approx. 2 mm with the roller. The roller is rolled across the fresh surface at an even speed and using parallel movements. This method of application within the pot life creates a defined texture. After the pot life, the viscosity increases abruptly and the formation of a defined texture is then no longer possible. Please note the hardener dosage table for the pot life depending on the temperature and quantity of hardener.

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SILIKAL® RM Area Grip Base does not require scattering as the texture already contains coarse particles and a texture is formed that is not smooth.

Consumption for 2.0 mm coating thickness	approx. 4 kg/m ²
Consumption for 3.0 mm coating thickness	approx. 6 kg/m ²

Technical data

SILIKAL® RM Area Grip Base comprises:

Component	Type	Quantity	Container
Comp. A	SILIKAL® RM Area Grip Base	15 kg	Metal hobbock
Comp. B	SILIKAL® pigment powder (see table below for available colours)	0.5 kg	Plastic bag
Comp. C	SILIKAL® BP hardening powder 50%	2 * 0.1 kg Adjustment of quantity based on the substrate temperature, see Hardener dosage	Plastic bag

Available pigment powders

approx. RAL 9010	White
approx. RAL 3020	Traffic red
approx. RAL 5017	Traffic blue
approx. RAL 6024	Traffic green
approx. RAL 1023	Traffic yellow
approx. RAL 9017	Traffic black

Hardener dosage depending on the substrate temperature

Temperature range	Quantity of hardener powder to be used	Pot life approx. min	Curing time approx. min
+5 °C to +15 °C	3 bags (= 0.3 kg)	11 – 14	32 – 42
+15 °C to +25 °C	2 bags (= 0.2 kg)	9 – 12	27 – 37
+25 °C to +40 °C	1 bag (= 0.1 kg)	6 – 10	20 – 32

Key data

Property	Measuring method	Approx. value
Viscosity	Visual	Pasty, thixotropic
Density D ₄ ²⁰	EN ISO 2811-2	1.7 g/cm ³
Flash point	DIN 51 755	+10 °C
Packing unit	15 kg hobbock	
Pot life at +20 °C	Approx. 10 min	
Application temperature	+5 °C to +40 °C	
Hardening time at +20 °C	Approx. 30 min	
Colour	See available pigment powders	
Shelf life	Min. 6 months in original packaging, below +30 °C	
Coating thickness	Recommended: 2 mm (1.5 – 3 mm)	

Silikal product information

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Equipment cleaning

The tools can be cleaned with SILIKAL® MMA cleaner, ethyl acetate or acetone immediately after use.

Shelf life

Min. 6 months in original packaging, below +30 °C. Transport and storage may lead to sedimentation of the filler. The material is once again ready for application after mixing back to homogeneous state.

Safety advice

See section 2 of the safety data sheet for the specific component.



Other applicable documents

Safety data sheet (MSDS)

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