# SILIKAL® RM Line Base

## 3-component cold plastic road marking (liquid / pigment powder / peroxide powder)

Expect more from your floor.

SILIKAL® RM Line Base is a solvent-free, rapid-curing (< 40 min) 3-component cold plastic to be colourised using pigment powder for durable road line markings with a coating thickness of 1.5 – 3 mm. A variety of SILIKAL® pigment powder mixtures are available in approx. RAL colours.

It has a low dirt pick-up thanks to the use of plasticiser-free, crosslinked yet still flexible resin based on MMA. The cold plastic is suitable for direct application on asphalt coatings or with primer also for cement substrates. The product can be applied by means of a smoothing trowel or in a screed box method in temperatures ranging from +5 °C to +40 °C.

## Application

### Areas of application

- Thick-coat road markings. 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

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 Line 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 Line 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 60 seconds.

The pot life begins with the addition of the hardening powder. The activated SILIKAL® RM Line Base is applied using commercially available screed boxes, smoothing trowels or mobile screed equipment to a thickness of approx. 2 mm. If necessary, freshly applied SILIKAL® RM Line Base can be strewn with approx. 400 g/cm³ of the drop-on material Sovitec Echostar 10 BCP SRT (glass beads/anti-skid materials). This can be done by hand or using a commercially available bead dispenser. The strewing must be performed following the cold plastic application.

| | |
|---|---|
| Consumption for 2.0 mm coating thickness | approx. 4 kg/m² |
| Consumption for 3.0 mm coating thickness | approx. 6 kg/m² |



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**(liquid / pigment powder / peroxide powder)**

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## Technical data

SILIKAL® RM Line Base comprises:

| Component | Type | Quantity | Container |
|---|---|---|---|
| Comp. A | SILIKAL® RM Line 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<br>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) | 10 – 13 | 27 – 37 |
| +15 °C to +25 °C | 2 bags (= 0.2 kg) | 8 – 11 | 22 – 32 |
| +25 °C to +40 °C | 1 bag (= 0.1 kg) | 6 – 9 | 17 – 27 |

## Key data

| Property | Measuring method | Approx. value |
|---|---|---|
| Viscosity | Visual | Pasty, thixotropic |
| Density $D_4^{20}$ | EN ISO 2811-2 | 1.8 g/cm³ |
| 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) | |

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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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