

SILIKAL® RM Line 400

**4-Component Cold Plastic (Powder/Liquid)
for 1.5 – 3 mm long life Road Markings**



SILIKAL® RM Line 400 is a solvent-free, fast-hardening 4-component cold plastic based on slightly flexible methacrylic resin for coating thicknesses of 1.5 – 3 mm. It is suitable for all bituminous substrates as well as cement substrates (with a primer coat). 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 (substrate temperature).

Use

Bituminous substrates:

The product is applied directly to the substrate. This should be dry and free of dust and oil (new bituminous surfaces should have been exposed to traffic for 4 – 6 weeks, otherwise adhesion can be impaired and discolouration can occur).

Concrete or cement-bonded substrates and semi-rigid surfaces:

Any constituents of the surface that impair adhesion (such as fine mortar, cement sludge or the like) must be removed by means of suitable methods (e.g. milling or high-pressure water jets).

Concrete or cement-bonded substrates must be primed before SILIKAL® RM Line 400 is applied to them. SILIKAL® R 51 or R 52 resin are among the products that can be used for this purpose. The substrate should not exceed residual moisture content of 4 CM %.

General:

- All substrates must be dry, free of dust and oil, and free of loose constituents.
- The substrate must have sufficient load-bearing capacity.
- Processing should not take place at a relative humidity of >75% (note the dew point table).
- Old markings must be removed where necessary.
- To ensure perfect curing and adhesion to the substrate, it is recommended that test markings are carried out beforehand in all cases.
- Any concerns must be reported to the client.

Technical data

SILIKAL® RM Line 400 Kit comprising:

Component	Type	Quantity	Container
Comp. A	SILIKAL® RM Line 400 resin	3 kg	Metal hobbock
Comp. B	SILIKAL® RM Line 400 filler	10.5 kg	Paper bag
Comp. C	SILIKAL® pigment powder (see table below for available colours)	0.5 kg	Plastic bag
Comp. D	SILIKAL® BP hardening powder 50%	3 * 0.1 kg	Plastic bag

Colours

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

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January 2018

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Hardener dosage (depending on the substrate temperature)

Temperature range	Quantity to use
+5 °C – +15 °C	3 bags (= 0.3 kg)
+15 °C – +25 °C	2 bags (= 0.2 kg)
+25 °C – +40 °C	1 bags (= 0.1 kg)

Application

Components A, B and C are processed into a homogeneous mass by means of a dissolver. Component D (hardening powder, see table for quantity to use) is subsequently added and mixed in for at least another 60 seconds.

Suitable tools include standard screed boxes or smoothing trowels as well as mobile screed equipment.

Consumption for 1.5 mm of cold plastic:	2.9 kg/m ²
Consumption for 3.0 mm of cold plastic:	5.7 kg/m ²

Characteristic values of the ready-mixed cold plastic

Property	Measuring Method	approx. Value
Viscosity	Visual	Pasty, thixotropic
Specific Gravity	EN ISO 2811-2	1.9 g/cm ³
Flash point	DIN 51 755	+10 °C
Packing Unit	See table for SILIKAL® RM Line 400 Kit	
Pot Life at +20 °C	12 – 15 minutes	
Application Temperature	+5 °C to +40 °C	
Hardening Time +20 °C	20 – 40 minutes	
Colour*	See table for colours	
Scattering Aggregate (Option)	Potters 3DAC05 3:1; 400 g/m ²	
Storage	min. 6 months in original packaging, below +30 °C	
Layer Thickness	Wet film comb Recommended 2 mm (1,5 – 3 mm)	

Drop-on materials

Where necessary, the drop-on material Potters 3DAC05/M72 3:1 (glass beads/grit mixture) can be strewn into the fresh marking immediately in a quantity of approx. 400 g/m². Commercial bead distributors are also available for this purpose.

Areas of application

Traffic areas, roads, car parks and industrial halls. Local regulations must be taken into consideration.

Cleaning

The working tools can be cleaned using commercial solvents (e.g. Silikal MMA cleaner, acetone or the like).

Storage

Store in a dry place. Only the liquid resin is a hazardous material requiring storage in accordance with the applicable regulations for combustible liquids. This means that about 4 times as much cold plastic can be stored than is the case with conventional products. For more details, please contact your local hazardous materials office.

Information on particular hazards

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



Other applicable documents

Safety data sheet (MSDS)

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