

TECHNICAL INFORMATION

# TEXTURED COLD PLASTIC FOR BICYCLE LANES



# TEXTURED COLD PLASTIC FOR BICYCLE LANES

Art.-No.: 583020

Art.-No.: 58....RAL....

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## Important Information:

Please consider our General Terms and Conditions and the general notes of the Technical Information Sheet! No liability is accepted for any errors! The information is provided to our best knowledge and experience. This information is, however, no warranty for any properties of the material. We provide this information without obligation, also regarding the rights of third parties. The user has to make sure that the material is appropriate for the respective application.

# 1 Main characteristics

## Textured Cold plastic for Bicycle Lanes...

- belongs to the group of solvent-free, multi-component, reactive systems
- consists of two components which – through chemical interaction – form a duroplastic compound and cannot be thermally plastified thereafter
- is formulated with particular elasticity and is especially used for large scale coatings
- is suitable for bicycle lane markings at intersections with high traffic volumes
- does not need any additional drop-on materials, due to its excellent skid resistance properties
- is suitable for bituminous surfaces (e.g. mastic asphalt, asphaltic concrete) and also for concrete surfaces (primer required)
- manual application possible with scraper or trowel

# 2 Technical Data

<b>Color</b>	Traffic red approx. RAL 3020, other colors on request
<b>Density</b>	Approx. 1.86 kg/l +/- 0.1 depending on color
<b>Potlife</b>	5 - 10 min. (depends on hardener quantity, air – and material temperature)
<b>Solvent content</b>	Solvent-free, do not add solvent
<b>Solvent for cleaning</b>	Special cleaner for marking machines Art.-No.: 3086
<b>Drop-on material</b>	does not need any additional drop-on materials, skid-resistance aggregates already mixed in
<b>Storage stability</b>	6 months (unmixed); sheltered from frost and direct sun exposure
<b>Trafficability / curing time</b>	Approx. 30 – 40 min. Depends on climate conditions (temperature, humidity, wind) material, layer thickness and road surface. In general, the marking's trafficability must be checked before it is exposed to traffic.
<b>Standard packaging</b>	<b>Textured Cold plastic for Bicycle Lanes:</b> tin container with 10/15/25kg filling weight <b>Hardener:</b> in PE-bags, filling weight corresponding to mixing ratio and container content <b>Attention:</b> all hardener types are organic peroxides – they must be transported and stored separately from the cold plastic in special containers (special cartons and boxes)
<b>Identification</b>	The regulations and instructions concerning appropriate transport, handling, storage, first aid measures, toxicology and ecology are stated in our material safety data sheet! The instructions stated on the product label and in the MSDS must be followed.
<b>VOC (accord. to ASTM 2369 – 1)</b>	4.8 +/- 0,5 (g/l) (Test report no. 190014714)
<b>Processing temperature</b>	min. + 5°C
<b>Surface temperature</b>	+ 5°C to + 45°C
<b>Relative humidity</b>	max. 75% (dew point spreadsheet is to be regarded)
<b>Thickness to be applied</b>	approx. 3 mm
<b>Theoretical consumption</b>	Approx. 5.58 kg/m <sup>2</sup> depending on color Actual consumption depends on applied thickness, application technique (squeegee, trowel or roller), type and state of the surface.

### 3 Mixing ratio / Application techniques / Hardener

Product	Art.-No.	Techniques	Type of hardener
<a href="#">Textured Cold plastic for Bicycle Lanes</a> traffic red	583020	Open mixing system Manual application (trowel, squeegee)	Hardener powder
<a href="#">Textured Cold plastic for Bicycle Lanes</a> colored	58.... RAL....		
Mixing ratio:	reactive component / base component (Textured cold plastic for bicycle lanes)	:	Hardener powder = 100 : 1 (BPO)
Between October and April Textured Cold plastic for Bicycle Lanes is delivered in winter formulation, due to weather conditions			

## 4 Processing instructions

### 4.1 Preparation of material and application techniques

Textured Cold plastic for Bicycle Lanes must be homogenously stirred in the original container before processing. The hardener (hardener powder) is mixed with the base component at the indicated mixing ratio using an appropriate stirring device. Use just the quantity needed for the next marking job.

Cold plastic products (reactive systems) are solvent-free and must be applied without adding any solvent (for optimizing of application properties, see 4.2.).

The cleaning must occur before the material has cured completely, using special cleaner for marking machines (Art.-No.: 3086).

The theoretical consumption for this material is listed in the table "Theoretical consumption of material and drop-on material" in kg/m<sup>2</sup> on our homepage.

### 4.2 Optimizing application properties of cold plastic

The application properties and reactivity of the material depend on the temperatures of cold plastic, air and surface temperatures. Proper storage conditions partly improve application conditions (see Technical Data).

For optimizing application properties, i.e. the reduction of viscosity, 1-2 % Condenser for Cold plastic (Art.-No.: 3044) can be added when temperatures of material, air and surface are low.

**Attention:** Only prepare the required material, since viscosity or settle properties may change later on.

## 5 Surfaces / pretreatment

### 5.1 General information

The surface must be dry, clean and free from grease, oil and loose gravel and other contaminations. The surface and potentially existing old markings must be checked for their carrying capacity and compatibility with the material to be applied. In case of doubt, test applications and adhesion tests are required. Ideally old markings should be removed with appropriate mechanical procedures.

## 5.2 Concrete or cement-bound surfaces

Pavement components that prevent good bonding – especially on new concrete – such as fine mortar layers, concrete slurries, concrete after-treatments as setting retarders, paraffins, silicate-based impregnations, etc. must be appropriately removed (e.g. with high pressure waterjet, fine millcut or similar). We recommend conducting test applications. In case of doubt contact us in written form.

Before applying Textured Cold plastic for Bicycle Lanes, concrete or cement-bound surfaces should be pretreated with primers:

- a) using spray technique (paint spray machine) with 2-component EP Primer (Art.-No.: 8609000) or
- b) manually (roller) with 2-component primer B71 for concrete (Art.-No.: 8010)

It is essential to have a sufficient und uniform coverage with primer in order to obtain an optimum bonding of the cold plastic and the concrete. Primer consumption may vary depending on the concrete's porosity. The humidity of concrete must not exceed 4% when applying 2-component B71 for concrete primer. Primers based on epoxy resins are suitable for residual damp surfaces. Primers diminish formation of bubbles that are likely to occur when concrete surfaces are not primed.

## 5.3 Bituminous surfaces

Any loose components such as chippings must be removed. Special agents used in new pavement asphalt (e.g. fluxoils, parting agents) are detrimental to good bonding of markings or may cause discoloration. Since these components are hardly removable with mechanical means, the surface should be exposed to traffic for 4-6 weeks prior to the application. Bonding checks are obligatory. If required before application of Textured cold plastic for bicycle lanes a thin primer layer (max. 200 µm) K815 for bicycle lanes should be applied to avoid bleeding.

## 5.4 Cobbled pavement

Natural, artificial and compound stone pavements are non-static surfaces and not suitable for bicycle lane markings with thick layers. No guarantee is given in cases of: crack formation, chippings caused by the movement of pavement parts, poor bonding (e.g. natural or artificial stones), penetration of moisture, wear of marking. Therefore, cobbled pavements are not suitable for Textured Cold plastic for Bicycle Lane markings. Cobbled pavements require an expensive pretreatment (see: General Information of Technical Information sheets).

## 5.5 Floor coatings

For markings on floor coatings our indoor marking products should be used.

# 6 Application techniques

Manually with scraper, trowel or other suitable devices. Textured Cold plastic for Bicycle Lanes is mixed homogenously with hardener powder. Then the mixed Textured Cold plastic is applied by using a trowel while applying some pressure to get a rough surface structure. For the reduction of trowel marks either add 1-2 % Condenser for Cold plastic (Art.-No. 3044) or use a roller for smoothing out trowel marks. Therefore, the roller should be wetted with Textured Cold plastic.

**Attention:** Due to its limited potlife, Textured Cold plastic should be applied without any delay to get an optimal roughness and structure.