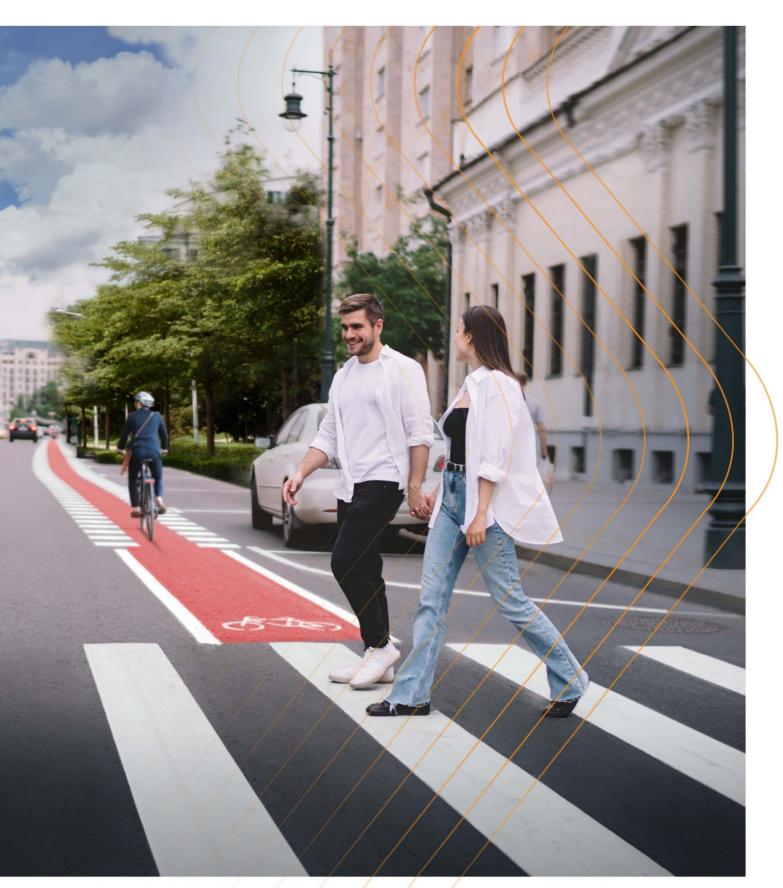
TECHNICAL INFORMATION ROLLER PLASTIC RP 15







ROLLER PLASTIC RP 15

Art.-No.: 579016 white

Version: 2021-05-04

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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 /Field of application

Roller plastic RP 15 ...

- belongs to the group of solvent-free, pluri-component, reactive systems
- consists of two components (basic component and hardener) which through chemical interaction – form a duroplastic compound and cannot be thermally plastified any more
- is formulated with particular elasticity and is used especially for large scale coatings and are strewed by Solid Plus drop-on aggregates to get excellent night visibility
- rolling application make a structured surface with skid resistance properties
- suitable for zebra stripes and similar markings visible at night giving more safety for pedestrians
- is suitable for both bituminous surfaces (e.g. mastic asphalt, asphalt concrete) and for concrete surfaces (primer required)
- application by roller technique
- has been tested and approved as Type I and Type II marking at the German Road Institute (BASt)
- tested according to EN 1871, standard colors (x,y), luminance factor (β), UV-resistance (Δβ) and elasticity (Shore D)

2 Technical Data

Color	Traffic white, approx. RAL 9016				
Density	approx. 1.92 kg/l +/- 0,06				
Potlife	5 – 10 min., depends on hardener quantity, air- and material temperature				
Solvent content	Solvent-free, don't add solvent for applying				
Solvent for cleaning	Special cleaner for marking machines ArtNo.: 3086				
Storage stability	6 months (unmixed), in sealed original packaging and sheltered from frost and direct sun exposure				
Overrollability/ curing time	Approx. 30 – 40 minutes, depends on climate conditions (temperature, humidity, wind) material, layer thickness and road surface. In general, the markings' overrollablity must be checked before exposing them to traffic impact				
Standard packaging	Roller plastic RP 15: tin container with 10/15/25 kg filling weight in PE-bags, filling weight corresponding to mixing ratio and container content Liquid hardener: plastic container, 20 kg filling weight Attention: all hardener types are organic peroxides – they must be separately packaged, transported and stored from the cold plastic in special containers (special cartons and boxes)				
Identification	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.				
VOC (accord. to ASTM 2369 – 1)	7.9 +/- 0.5 (g/l) (Test report no. 190014714)				
Surface temperature	+ 5°C to + 45°C				
Relative humidity	max. 75% (dew point spreadsheet has to be regarded)				
Layer thickness	max. 2 mm				
Theoretical consumption	approx. 3.84 kg/m², actual consumption depends on applied thickness and type and state of the surface.				

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3 Mixing ratios / Application techniques / Hardener

Product		Article-No.	Technique		Type of hardener
Roller plastic F Summer formulati Winter formulation	on	579016 579016W	Open mixing system Manual application by roller		Hardener powder. Liquid hardener
Mixing ratio:	reactive component / base (Roller plastic RP 15)	component :	Hardener powder Liquid hardener	=	100 : 1 98 : 2

Between October and April Roller plastic RP 15 is delivered in winter formulations, due to weather conditions.

4 Processing Data

4.1 Preparation of material and application Instructions

Prior to application Roller plastic RP 15 must be stirred in its original container until of even consistency. Use only the quantity needed for the next marking job. The hardener powder is then added into the base component at the indicated mixing ratio and again stirred until of even consistency.

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

Machines, tools and auxiliaries must be cleaned before the paint cures, using special cleaner for marking machines (Art.-No.: 3086).

It is important that the material must be spread evenly over the entire application.

Theoretical consumption of paint and drop-on material is listed:

- in the respective test reports by BASt
- in the table 1 "RPA test reports by BASt" see point 7.1
- in the table "Theoretical consumption of material and drop-on materials" on our website in kg/m² as well as in kg/km of line to be marked depending on typical line width

4.2 Optimizing of application properties of cold plastic

The application properties and reactivity of the material depend upon the temperature of the Cold plastic, air and surface. Proper storage conditions improve application conditions.

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

Attention: Limit the material mixed with condenser of the needed quantity, otherwise viscosity or settle properties may changing.

5 Surfaces / pretreatment

5.1 General information

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



5.2 Concrete or cement-bound surfaces

The pavement that prevent good bonding, especially on new concrete, as fine mortar layer, concrete slurries, concrete after-treatments as setting retarders, paraffins, impregnations on silicate basis etc. must be appropriately removed (e.g. with high pressure waterjet, fine millcuts or similar). We recommend conducting test applications in case of doubt communicate concerns in writing.

Before applying Roller plastic RP 15 on concrete or cement-bound surfaces they should be pretreated with primers:

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

It is essential to have sufficient and uniform coverage with primer in order to obtain optimum bonding of the Roller plastic RP 15 and the concrete. Primer consumption may vary depending on the concrete's porosity. The moisture of the concrete must not exceed 4% when applying 2-component primer B71 for concrete. Primers based on epoxy resins are suitable for residual moisture surfaces.

5.3 Bituminous surfaces

Any loose components such as chippings must be removed. Special agents used in new pavement asphalt (e.g. fluxoils, adherents) are detrimental to good bonding of markings and can cause discoloration. Since these components are hardly removable mechanically, the surface should be exposed to traffic for 4-6 weeks.

For avoiding RP15 discoloring a thin layer of 2-comp. K809 (max. 200 µm) are recommended.

5.4 Cobbled pavement

Natural, artificial and compound stone pavements are loose surfaces that move. Basically these are not suitable surfaces for Roller Plastic RP 15. No guarantee is given in cases of: crack formation, chippings caused by the movement of pavement parts, poor marking bonding (e.g. natural or artificial stones), penetration of moisture, wear of marking, It is assumed that marking bonding is sufficient. In case of doubt test applications are necessary.

Cobbled concrete pavement:

Before application of Roller plastic RP 15 takes place, 2-component primer B71 for concrete (Art.-No.: 8010) must be applied.

Cobbled pavement (natural or artificial stones)

First apply 2-component primer B55 for cobbles (Art.-N.:8011). Secondly apply cobblestone mortar (Art.-No.: 5232....) uniformly covering the area, (an even surface is required). The overhang of the cobblestone mortar area compared to the Roller plastic RP 15 area should be 2-3 cm. After curing of the cobblestone mortar the Roller plastic RP15 can be applied.

The actual consumption of the above mentioned products depends on the type and state of the cobbled pavement.

5.5 Floor coatings

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



6 Application techniques

Manually with scraper, trowel and roller. Roller plastic RP 15 mixed to an even consistency with hardener powder can be distributed uniformly with a scraper and adjusted to the required layer of thickness. A uniform, well-shaped surface structure is then created with a lamb's wool roller.

Attention: Due to limited potlife the Roller plastic RP 15 should be applied without any delay. Surface defects may occur if roller application is undertaken too late.

7 RPA – test reports / Euroconsult – results

7.1 Table 1: RPA – test reports by BASt (German Road Institute)

Test report –no.	est report –no. Layer thick- ness		tion	Drop-on material (DOM)	Traffic technological properties		
	mm Material		DOM	Identification	New condition	Used condition	
		kg/m²	kg/m²	(divergent identification possible - see relevant test report)	New Condition	Osea condition	
Type I marking							
2015 1DK 05.13	2.0	3.84	0.50	SWARCO SOLIDPLUS 100 212-850 T18 M35	P7, ≥ S1, R5, Q5, T3	P7, S2, R5, Q5	
Type II marking							
2020 1DK 10.10	3,0	5,76	0,45	SWARCO SOLIDPLUS 10 425-1400 T18 MK30	P7, S1, R5, RW6, Q5, T3*	P7, S2, R5, RW3, Q5	

7.2 Table 2: Euroconsult – results according to EN 1871

Report-no.	RAL no.	luminance factor ß	Ƨ for UV	Shore D
EXP 2588/18-3574A1	9016	0.86	< 0.05	38