



CRYSTAL LINE

TECHNICAL DATA SHEET

Date: 20 / 08 / 2024

Admission Number: TDS-CRYSTAL-01

PRODUCT

Class	One Component Alkyd-Based Cold Road Marking Paint
Application Mode	Air or airless spray, brush, roller
Product Name	CRYSTAL
Product Code	RDC-9116-25

MANUFACTURER

Company	ROADCHEM RESİN BOYA VE MAKİNE LTD. ŞTİ.
Address	Ata Mahallesi Tralles Bulvarı No:6Aj Efeler-AYDIN / TURKIYE
Telephone	+90 555 035 60 60

PRODUCT DESCRIPTION

It is a mono component, Sunflower oil alkyd resin based and retroreflecting, road marking paint. It has been formulated according to TS EN 1871, TS EN 1436 and the Highways Technical Specifications of General Directorate of Highways.

Application in one passage with an autotracted machine. The product is covered with drops of glass beads. With its high resistance, it can keep its reflecting power, color, and film thickness for a long time. UV and chemical resistance are very high. Because of fast drying and hardening, the application area can open to traffic in 15 minutes. It can be used for marking roads, airports, parking lots and all types of areas.

PRODUCT DESCRIPTION

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Surface Preparation Information:

Before the application of Crystal, the area should be dry and away from dust, grease, and other dirt. Road surface temperature should be higher than 5 oC. The existed old paint should be cleaned, but if it isn't easy, application can be done on it.

Application Information:

With automatic application equipments, paint should be spraying to the road surface and drop on glass beads on the product. In case of need, application can be done with brush or roll. There is no need to dilute the product because it is on the application viscosity. In case of need, it can be dilute with its own thinner.

Diluted with its own thinner: Cellulosic Thinner

Please wear suitable protective clothing, gloves and mask as hot liquid is dangerous for operators during application.

Application conditions	5 °C - 40 °C
Max. Humidity	% 80
Drying Time	15 min (25° C and 52% Humidity)

PAINT AND GLASS BEADS CONSUMPTION AMOUNT

Wet Film Thickness [μ]	Dry Film Thickness [μ]	Consumption [m²/lt]	Consumption [kg/m²]
140	80	7,13	0,23
175	100	5,70	0,29
263	150	3,80	0,43
307	175	3,26	0,51
500	285	2,00	0,83
525	300	1,90	0,87

Note: The values given in the table are theoretical values. Consumption amounts may vary depending on the surface on which the paint will be applied and environmental conditions.

Glass Beads (TS EN 1423)	Need	265 g / m ²
	Consumption	300 g / m ²

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PHYSICAL & CHEMICAL PROPERTIES

Color	All RAL Colors
Viscosity [KU]	80-95 KU
Density [g / ml]	1,60 ± 0,05 gr / ml.
Amount of Solids (By Weight) [%]	75 ± 2
Amount of Solids (By Volume) [%]	58 ± 2
Amount of Solid Binding Material (By Weight) [%]	18
Luminance Factor Class / Value	White: LF7 / $\beta \geq 0,85$ Yellow: LF2 / $\beta \geq 0,50$
Flash Point	$\leq 21^{\circ} \text{C}$
Luminance Factor Class/Value after UV aging	UV1 / $\Delta\beta \leq 0,05$
Vomit Resistance Class / Value	BR1 / $\Delta\beta \leq 0,03$

STORAGE CONDITIONS

Crystal alkyd based cold road marking paint is offered to users in 25 Kg metal packages. It can be sold in 1000 kg IBC packages.

Under appropriate storage conditions, stock life is at least 1 year.

Store in closed areas, keep away from sources of fire.

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