



DIAMOND

TECHNICAL DATA SHEET

Date: 20 / 08 / 2024	Admission Number: TDS-DIAMOND-01
PRODUCT	
Class	One Component Acrylic Based Cold Road Marking Paint
Application Mode	Air or airless spray, brush, roller
Product Name	DIAMOND
Product Code	RDC-9116-25
MANUFACTURER	
Company	ROADCHEM RESİN BOYA VE MAKİNA LTD. ŞTİ.
Address	Ata Mahallesi Tralles Bulvarı No:6Aj Efeler-AYDIN / TURKIYE
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PRODUCT DESCRIPTION

It is a single-component, solvent-based, **ACRYLIC**-based white road marking paint with excellent reflectivity. It is formulated to meet the requirements of TS EN 1871 and TS EN 1436 standards.

Thanks to its high strength, it maintains its reflective power, color and film thickness for a long time under heavy traffic. It has very high UV resistance and chemical resistance.

Since it dries and hardens quickly, the applied area is opened to traffic within 30 minutes.

It is used for drawing and marking urban and intercity roads, airports, parking lots, warehouses and all kinds of areas.

Its physical and chemical resistance is much higher than alkyd-based paints. For this reason, it will take its place on the roads as a new generation paint in single-compound paint applications, thanks to these features and its affordable cost.

PRODUCT DESCRIPTION

Surface Preparation Information:

Before the application of Diamond, it must be ensured that the surface to be applied is dry, dust-free, free from oil and other dirt. The surface temperature of the road should be above 5 °C. It is recommended to clean the existing paint on the road. However, if the old paint on the surface cannot be easily cleaned, it can be applied on it.

Application Information:

It is recommended to apply by spraying on the road surface with automatic application equipment and pouring glass beads on it. If necessary, application can be made with a brush or roller. Since the product has the application viscosity, there is no need for dilution. If necessary, it can be thinned with its own thinner.

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	20 min for 0.6 mm wet film application (20 °C and 49% Humidity)

PAINT AND GLASS BEADS CONSUMPTION AMOUNT

Wet Film Thickness [μ]	Dry Film Thickness [μ]	Consumption [m²/lt]	Consumption [kg/m²]
143	80	7,00	0,23
179	100	5,60	0,28
268	150	3,73	0,42
313	175	3,20	0,49

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	350 g / m ²

PHYSICAL & CHEMICAL PROPERTIES

Color	All RAL Colors
Viscosity	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
Brightness Factor Class / Value	White: LF7 / $\beta \geq 0,85$ Yellow: LF2 / $\beta \geq 0,50$
Gloss Factor Class/Value after UV aging	UV1 / $\Delta\beta \leq 0,05$
Vomit Resistance Class / Value	BR1 / $\Delta\beta \leq 0,03$

STORAGE CONDITIONS

Diamond; Acrylic cold road marking paint is offered to users in 25 Kg metal packages. Under appropriate storage conditions, stock life is at least 1 year. Store in closed areas, keep away from sources of fire.