



EMERALD

TECHNICAL DATA SHEET

Date: 20 / 08 / 2024

Admission Number: TDS-EMERALD-01

PRODUCT

Class	Thermoplastic Spray Road Marking Paint
Application Mode	Spray
Product Name	EMERALD
Product Code	RDC8-9003-25

MANUFACTURER

Company	ROADCHEM RESİN BOYA VE MAKİNA LTD. ŞTİ.
Address	Ata Mahallesi Tralles Bulvarı No:6Aj Efeler-AYDIN / TURKIYE
Telephone	+90 256 502 55 09

PRODUCT DESCRIPTION

It is a road marking paint that is applied hot on the road surface by pouring glass beads on it by means of suitable devices after melting at certain temperatures. TCK General Directorate highways technical specifications have been formulated to meet the requirements of TS EN 1871, TS EN 1436, BS 3262, AASHTO M249, EN 1871 standards. Thanks to its high strength, it maintains its reflecting power, line thickness and width for years under heavy traffic. UV and Chemical resistance is very high. It is used for drawing and marking of city and intercity roads, airports, parking lots. Since it does not contain volatile components, it does not cause any harm to the environment.

PRODUCT DESCRIPTION

Surface Preparation Information:

Before the application of Emerald, 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.

Emerald is offered to the service of users in 25 kg in its special packaging, which is thrown into the heating boiler with itself.

Application Information:

A few bags of Emerald are poured into the heating boiler, which has a mechanical mixer and temperature control unit. The product is melted by heating it to the specified temperature point.

After the first thrown products melt, the remaining part of the heating boiler is filled with the product. This process is done; It increases the heat transfer rate and saves energy and time by reducing the heating time of a fully loaded boiler.

When the product in the heating tank reaches the homogeneous mixture and the recommended application temperature, the product is transferred to the application equipment. The product is applied to the road as spray with specific equipments.

MAX. Never exceed the APPLICATION TEMPERATURE. This may cause the product to catch fire, the boiler to explode, and the color and resin in it to deteriorate.

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

Application Temperature	190 °C
Max. Application Temperature	210 °C
Application conditions	5 °C - 40 °C
Max. Humidity	% 80
Drying Time	3 min. (21 °C and % 62 Humidity)
Glass Beads-Drop On	Consumption: 400 g / m ²

PHYSICAL PROPERTIES

Color	White
Density [g / ml]	1,88 – 2,02 kg / Lt
Ash Content [%]	68,3 ± 3
Softening Point	SP3 / ≥ 95
Luminance Factor	White LF6 / β ≥ 0,80;
Antiskid	S1 / SRT ≥ 45
Pressure Value	At least 1 kg / cm ²
Hardness Degree	70 shore
Amount of Glass Beads	At least 25% by volume At least 20% by mass

STORAGE CONDITIONS

Emerald: It is packaged in 25 kg packages and offered for use in 1.4 ton pallets. It should be stored in dry and moisture-free environments. Stock life is 2 years under appropriate storage conditions.

Age (month) Requirement:	RETROREFLEXION Night visibility (mcd.m-2.lx-1) 150	Adhesion SRT 0,45	Visibility by day CHROMATICITY	
			(x)	(y)
1	239	0,48	0,313	0,322
12	226	0,54	0,328	0,336
18	231	0,53	0,333	0,337
24	209	0,59	0,329	0,337