

SAPPHIRE

TECHNICAL DATA SHEET

Date: 15 / 06 / 2023

Admission Number: TDS-SAPPHIRE-01

PRODUCT

Class	Thermoplastic Flat Road Marking Paint
Application Mode	Flat, Spread
Product Name	SAPPHIRE - White
Product Code	RDC8-9003-25

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 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 and TS EN 1436 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 Sapphire, 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.

Sapphire 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 Sapphire 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.

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	170 °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 (TS EN 1423)	Consumption: 400 g / m ²

PHYSICAL PROPERTIES

Color	White
Density [g / ml]	1,88 – 2,02 kg / Lt
Softening Point	SP3 / ≥ 95
Luminance Factor	White LF6 / β ≥ 0,80;
Antiskid	S1 / SRT ≥ 45

STORAGE CONDITIONS

Sapphire puts in service in 25 kg packages and packaged as 1-ton pallets. Store in dry and no humid conditions. Under appropriate storage conditions, stock life is 2 years.

Age (month)	RETROREFLEXION Night visibility (mcd.m-2.lx-1)	Adhesion SRT	Visibility by day CHROMATICITY	
Requirement:	150	0,45	(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