



## AQUA

### TECHNICAL DATA SHEET

Date: 20 / 08 / 2024	Admission Number: TDS-AQUA-01
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#### PRODUCT

<b>Class</b>	One Component Water-Based Cold Road Marking Paint
<b>Application Mode</b>	Air or airless spray, brush, roller
<b>Product Name</b>	AQUA
<b>Product Code</b>	RDC11-9016-25

#### MANUFACTURER

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

#### PRODUCT DESCRIPTION

It is a single-component, water-based acrylic polymer-based road marking paint with excellent physical and chemical resistance compared to traditional alkyd-based road marking paints. It has been formulated to meet the requirements of the TCK General Directorate Highways Technical Specification, TS EN 1871 and TS EN 1436 Standards.

It can be applied at higher humidity and lower temperatures than traditional water-based paints. 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 at the latest.

Since it is water-based, it does not have any harmful effects on the environment or human health.

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

## PRODUCT DESCRIPTION

### Surface Preparation Information:

Before AQUA application, the surface to be applied must be dry, dust-free, free of oil and other dirt. The surface temperature of the road must 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 cleaned easily, it can be applied over 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.

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

<b>Application conditions</b>	5 °C - 40 °C
<b>Max. Humidity</b>	% 80
<b>Drying Time</b>	30 min (20 °C and 49% Humidity)

## PAINT AND GLASS BEADS CONSUMPTION AMOUNT

<b>Wet Film Thickness [ <math>\mu</math> ]</b>	<b>Dry Film Thickness [ <math>\mu</math> ]</b>	<b>Consumption [ <math>m^2/lt</math> ]</b>	<b>Consumption [ kg/m<sup>2</sup> ]</b>
140	80	7,13	0,23
175	100	5,70	0,29
263	150	3,80	0,43
307	175	3,26	0,51

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.

<b>Glass Beads (TS EN 1423)</b>	<b>Need</b>	275 g / m <sup>2</sup>
	<b>Consumption</b>	300 g / m <sup>2</sup>

## PHYSICAL & CHEMICAL PROPERTIES

<b>Color</b>	All RAL Colors
<b>Viscosity</b>	80-95 KU
<b>Density [g / ml ]</b>	1,60 ± 0,05 gr / ml.

<b>Amount of Solids (By Weight) [%]</b>	75 ± 2
<b>Amount of Solids (By Volume) [%]</b>	58 ± 2
<b>Amount of Solid Binding Material (By Weight) [%]</b>	18
<b>Brightness Factor Class / Value</b>	White: LF7 / $\beta \geq 0,85$ Yellow: LF2 / $\beta \geq 0,50$
<b>Gloss Factor Class/Value after UV aging</b>	UV1 / $\Delta\beta \leq 0,05$
<b>Vomit Resistance Class / Value</b>	BR1 / $\Delta\beta \leq 0,03$

### STORAGE CONDITIONS

AQUA water-based 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.