

REC WATERBORNE FAST DRY 903

HIGH SOLIDS WATER BASED, FAST DRY ROAD MARKING PAINT

DESCRIPTION

REC WATERBORNE FAST DRY 903 road marking paint is a one component, patented Quick-Set technology waterborne traffic paint, offering fast drying and fast return to service. Excellent road performance and reduced emissions.

Formulated to comply with the requirements of SANS 731-2:2015 Single-Pack Water-Borne Paints.

PRIMARY APPLICATIONS

REC WATERBORNE FAST DRY 903 is formulated as a high solid's waterborne road marking paint for the marking of highways, local roads, intersections, crosswalks, landing strips and parking lots with or without reflective glass beads. **REC WATERBORNE FAST DRY 903** will adhere directly to asphalt and correctly primed concrete roads or paved surfaces.

FEATURES/BENEFITS

- Excellent adhesion to asphalt.
- Excellent adhesion to primed concrete.
- Fast drying.
- Suitable for both bituminous & concrete surfaces.
- Suitable for application with airless and air atomizing equipment.
- Good glass bead embedment and retention properties.
- Excellent coverage.
- Excellent resistance against abrasion.
- High luminance.
- Environmentally friendly.
- Easier, safer clean-up using water.
- Easy change over from traditional solvent-based paints to water based without sacrificing performance or cost

TECHNICAL INFORMATION

Color	White, yellow, red, black, blue & green. (Other colors available upon request) Color complies with SANS 731-2 in accordance with BS 381 C.
Luminance factor (reflectivity) of white paint	> 80%
Viscosity	80 – 90 KU
Hiding Power - Applied @ 200µm gap clearance & tested to SANS 2814	> 95% for White > 90% for Yellow
Finish	Smooth matt 85° Specular Gloss of not > 30%
Density (approx.)	1.63 Kg/ Liter (Typical for white)
Mass Solids	76%
Volume Solids	63%

Typical Film Thickness & Coverage (On flat surfaces)	0.35 Lt to 0.42 Lt/ m ² 350µm to 420µm DFT 0.57 Kg to 0.68 Kg/ m ² 220µm to 260µm DFT		
Method of Application	Airless or air atomizing equipment		
Number of Coats	1 coat by spray		
Application Temperature	10°C to 40°C		
Drying Time vs Humidity vs Temperature	Relative Humidity	Air Temperature	
		10 – 20°C	20 – 40°C
	20 – 50%	10 – 20 min	5 – 15 min
	50 – 80%	15 – 30 min	10 – 25 min
	80 – 90%	30 – 60 min	20 – 45 min
Specification Compliance	EN 1436, EN 1871 and SANS 731/2:2015 Type 1 Class 2 Single Pack Waterborne Paints – machine spray application		
Drying-Time Classification: ASTM D 711 - Classified no pick-up time of paints (380µm WFT) shall be:	Class 1: 15 Minutes max		
Resistance to Sagging 375µm	500µm		
Drop on Reflective Glass Beads*Applied minimum 400gm/m ²	REC Reflective Glass Beads AP EN 1423 212-850um Class A REC Reflective Glass Beads UC EN 1423 212-850um Class A		
Tariff Code	HS32091090		

*Only used glass beads that have been tested and deemed suitable for application. An embedment of 50 – 60% glass beads is optimal to achieve good adhesion and retro reflectivity.

Application equipment & methods should be adjusted to optimize the applied product.

*Selecting the correct bead will enhance the total durability of the road marking system, always consider the diameter of the bead being used with the thickness of the coating to be applied. The paint thickness should not be less than 50% of the diameter of the smallest glass bead.

DIRECTIONS FOR USE

REC WATERBORNE FAST DRY 903 is supplied ready for processing. Usually, the addition of water is not necessary. It is however possible to optimize the materials spray properties by adding maximum 2% water as a thinner, this can however increase the open time for traffic.

Refer to application guideline for further details.

SURFACE PREPARATION

The surface must be dry, clean, free of dust, contamination, oils, loose particles, and other impurities.

Existing road markings and surface must be checked for load bearing capacity the road marking material to be applied.

If in doubt an adhesion test sample should always be carried out.

If required old road marking should be removed prior to application using suitable mechanical methods.

CONCRETE OR CEMENT BOUND SURFACES

Surface components that impair adhesion, such as fine mortar layers, concrete slurries, curing compounds etc. must be removed by suitable mechanical methods such as high-pressure cleaning, grinding or blast cleaning. Concrete or cement bound surfaces should always be primed with Deep Penetrating Primer WB. Ensure that the surface is completely wetted with primer to ensure optimal adhesion of the road paint. The consumption of the primer depends entirely on the porosity of the concrete.

The primer should have sufficient time for the water to evaporate prior to final application of the road paint which is generally around 30 minutes. Generally, once the primed surface is no longer sticky to the touch it is ideal for application of road paint.

The moisture of the concrete should not exceed 4% when marking. A minimum 48 hours should be allowed after rain.

BITUMINOUS SURFACES

Loose elements such as grit should be removed. Existing chemical additives on the surface of new bitumen surfaces such as flux oils, oleiferous separating agents for rollers and similar which are detrimental to the adhesion of subsequent coats and can cause discoloration. A test piece should be applied, if any negative results are obtained the surface should be allowed to weather for an additional 4 to 6 weeks.

PRECAUTIONS, TIPS & CLEAN-UP:

- The quick set technology in the **REC WATERBORNE FAST DRY 903** relies on the evaporation of ammonia. As the ammonia evaporates and skin develops. The skin cannot and should not be re-stirred into the paint.
- Stop striping before you run out of paint, so that you leave the lines full of paint. This will prevent air from entering the system.
- It is a good idea to flush the guns immediately if you stop spraying, even if it's just for a few minutes.
- Tanks should be left filled with paint at the end of the day. To help prevent surface skinning pour a small amount of ammonia/water on top of the paint.
- Always check for skins in the tanks before starting up each day.
- When sitting overnight, the system should be closed.
- Make sure the pump pressure is off if it is an airless system.
- If the system has not been in use for a long time, flush with ammoniated water.
- If the paint dries though, cleaning with MEK or acetone will soften the paint enough to remove it from the equipment.
- Use only clean water for paint flushing or equipment washing.
- Air caps and nozzles must be removed and cleaned carefully with water using a nylon brush.
- Never allow the paint to dry through in the lines or on the gun and tips.

PACKAGING

REC WATERBORNE FAST DRY 903 is available in 5-, 20- & 210-Liter Drums.

STORAGE

- Shelf Life: 6 months @ 25°C from date of manufacture.
- Materials must be stored in a warehouse with temperatures between 5°C and 35°C.
- Material should not be used after the shelf-life expiry date. Drying performance and glass bead retention may decrease if shelf life is exceeded.

HEALTH & SAFETY

As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. In case of swallowing, seek medical assistance.

QUALITY STATEMENT

All our products are manufactured to comply with our internal quality management system to ensure consistency and quality.

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RECKON CHEMICALS PRIVATE LIMITED
21 CCA, BLOCK B, KHAYABAN-E-AMIN, LAHORE
Tell: +92-42-35452620, +92-42-35230419
Web: www.reckonchemicals.com
Email: Info@reckonchemicals.com

