

# REC WATERBORNE AREA MARKING 902

## HIGH SOLIDS, HIGH SHEEN ROAD MARKING PAINT FOR LINE & AREA MARKING

### DESCRIPTION

**REC WATERBORNE AREA MARKING 902** is a one component, Quick-Set technology waterborne road marking paint with a high hardness and a high sheen finish. It offers fast drying and fast return to service even in adverse conditions of low temperature, high humidity, and low air movement.

**REC WATERBORNE AREA MARKING 902** flows easily, has good levelling properties, and dries to a uniform finish free from brush marks, lapping streaks and other imperfections. This product is suitable for brush & roller application to both local & imported bituminous binders and is also suitable for application with road marking spray equipment.

### PRIMARY APPLICATIONS

**REC WATERBORNE AREA MARKING 902** 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 AREA MARKING 902** will adhere directly to asphalt and correctly primed concrete roads or paved surfaces.

**REC WATERBORNE AREA MARKING 902** has an increased "open time", making it suitable for both small & large applications such as parking bays, walkways, or pedestrian crossing etc. The higher sheen and higher hardness results in increased dirt resistance, marking resistance and easier cleanability.

**REC WATERBORNE AREA MARKING 902** is used in all applications where solvent borne products are specified. The advantages of the **REC WATERBORNE AREA MARKING 902** compared to traditional solvent-based traffic paints include:

- Better glass bead retention giving extended retro reflectivity/night-time visibility.
- Extended whiteness and daytime visibility.
- Environmentally acceptable.
- Increased applicator safety – exposure to volatile organic solvents is greatly reduced.
- Easier, safer clean-up using water and mild solvent or detergents.
- Low odor.
- Significantly reduced disposal costs – can be solidified and disposed of as non-hazardous waste.
- Non-Flammable.

**REC WATERBORNE AREA MARKING 902** meets all the standard requirements for SANS 731-2.

### FEATURES/BENEFITS

- High sheen with low dirt retention & marking resistance.
- Easy to process with all marking machines, spray equipment and can be applied using a brush or roller.
- Extremely weather resistant & abrasion resistant.
- Available in a wide range of colors.
- Waterborne, high solids formulation.
- Fast drying time.
- Excellent levelling & flow properties.
- Excellent glass bead retention, adhesion, and long-term retro reflectance.
- Excellent obliteration / hiding power.

- High reflectivity / luminance factor with glass beads added.
- High sag resistance allows for excellent build and coverage on new asphalt.
- Excellent resistance to bleeding on bitumen substrates.
- Excellent alkali resistance on concrete surfaces.
- Excellent adhesion to asphalt.
- Excellent performance on suitably primed concrete

#### TECHNICAL INFORMATION

|                        |                                                                                |
|------------------------|--------------------------------------------------------------------------------|
| Color                  | White, yellow, red, black, blue & green. (Other colors available upon request) |
| Opacity                | > 95%                                                                          |
| Finish                 | Smooth sheen                                                                   |
| Density (approx.)      | 1.40 Kg/ Liter (Typical for white)                                             |
| Mass Solids            | 65%                                                                            |
| Volume Solids          | 50%                                                                            |
| Typical Film Thickness | 180 to 360µm DFT (360 to 720µm WFT)                                            |
| Theoretical Coverage   | 2 m <sup>2</sup> / Liter at 500µm WFT without beads, allow for loss factors    |
| Method of Application  | Airless spray, conventional spray, or brush/roller                             |
| Number of Coats        | 1 coat by spray                                                                |
| Viscosity              | 95 KU @ 25°C                                                                   |
| Tariff Code            | HS32091090                                                                     |

#### DRYING INFORMATION:

Without drop on glass beads, this paint dries to a lab ASTM D711 no pickup in less than 20 minutes @ 250 µm WFT when ambient and surface temperatures are 25°C at 50% RH.

When glass beads are applied at a rate of 0.7kg / Lt to a 375 µm wet line, the field applied paint will dry to an ASTM D713 no-tack in less than 20 minutes when applied at the weather conditions above.

#### ENVIRONMENT:

|                   |          | Air Temperature |             |
|-------------------|----------|-----------------|-------------|
|                   |          | 10 – 20°C       | 20 – 40°C   |
| Relative Humidity | 20 – 50% | 10 – 20 min     | 5 – 15 min  |
|                   | 50 – 80% | 15 – 30 min     | 10 – 25 min |
|                   | 80 – 90% | 30 – 60 min     | 20 – 45 min |

\*Application when Relative Humidity is above 80% will extend drying time.

#### DIRECTIONS FOR USE

##### SURFACE PREPARATION:

**REC WATERBORNE AREA MARKING 902** can be applied on different road surfaces as well as on old markings. The quality and cleanliness of the substrate will influence the paint adhesion and therefore the durability of the road- marking system.

### CONCRETE ROAD SURFACES

Concrete needs to be pre-treated by milling, shot blasting, high-pressure water blasting and primed with Deep Penetrating Primer WB. For fresh concrete, wait for a minimum of 1 month before applying waterborne paint due to the high alkalinity of the substrate.

### ASPHALT ROAD SURFACES

Remove incompatible paint systems, sweep surface to remove dust and debris.

#### APPLICATION:

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Spray Application        | <p><b>REC WATERBORNE AREA MARKING 902</b> is best applied by airless or pneumatic spray application.</p> <p>For airless spray application, a tip or orifice of 19 – 27 thou is recommended. The spraying pressure will vary depending on the thickness of the paint relative to temperature and nozzle size chosen, but typically the pressure should be between 140 bar to 200 bar for perfect atomization.</p> <p>Over pressurizing should be avoided as dry spray/dusting will be imminent.</p> <p>If pneumatic spray is used a 1.8mm to 2.2mm needle should be used and air pressure adjusted to obtain sufficient atomizing.</p> |
| Roller/Brush Application | Before application begins, it is important to mix material first to ensure there is no settlement. Application can be done manually with either a brush or roller.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Thinner                  | DO NOT THIN. Product is ready for use.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Cleaner                  | Water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Work Stoppage            | <p>Do not allow material to remain in spray equipment after use; thoroughly flush and clean all equipment with water.</p> <p>Due to <b>REC WATERBORNE AREA MARKING 902</b> fast drying properties, it is best practice to keep the roller/brush wet during application. When stopping for a break, wash &amp; re-use roller/brush or start with a new set.</p>                                                                                                                                                                                                                                                                        |
| Clean Up                 | Clean all equipment immediately after use with water. It is advisable to periodically flush out spraying equipment during the course of the working day. Frequency of cleaning is dependent upon the amount sprayed, temperature and elapsed time.                                                                                                                                                                                                                                                                                                                                                                                    |

#### CONSUMPTION

| Dry Film Thickness (µm) | REC WATERBORNE AREA MARKING 902 (Lt/ m <sup>2</sup> ) | Drop-On Materials (Kg /m <sup>2</sup> ) | Total Thickness |
|-------------------------|-------------------------------------------------------|-----------------------------------------|-----------------|
| 150 µm                  | 0.25                                                  | 0.17                                    | 320 – 350 µm    |
| 200 µm                  | 0.32                                                  | 0.22                                    | 420 – 450 µm    |
| 250 µm                  | 0.40                                                  | 0.28                                    | 530 – 550 µm    |
| 300 µm                  | 0.48                                                  | 0.33                                    | 630 – 650 µm    |

#### LIMITATIONS:

- Bead compatibility & embedment should be tested prior to application and during to ensure optimal performance.
- Apply a test strip to determine dry to no-pickup times when humidity is higher than 65%. Use traffic cones whenever necessary.
- Do not mix in "Skin".
- Do not apply when rain is forecasted within 2 hours.

## PACKAGING

**REC WATERBORNE AREA MARKING 902** is available in 5-, 20- & 210-liter Drums.

## STORAGE

- Shelf Life: 12 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

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.

**WARRANTY:** The Reckon Chemicals (Pvt.) Ltd. (Reckon) solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Reckon, no other representations or statements made by Reckon or its representatives, in writing or orally, shall alter this warranty. Reckon MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Reckon product fails to conform with this warranty, Reckon will replace the product to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Reckon does not authorize anyone on its behalf to make any written or oral statements which in any way alter Reckon's installation information or instructions in its product literature or on its packaging labels. Any installation of Reckon products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Reckon's products for the Buyer's intended purposes.

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

