



## WATERBORNE PAINT

Hi-Brite waterborne paint is a high-quality road marking product that is specifically engineered for optimum performance. It is certified and approved by APAS. All Hi Brite Road Marking Paints are manufactured in Australian facilities that have NATA Laboratory Accreditation (ISO17025), are fully certified APAS RMU's and possess the ISO 9001:2000 Quality Management Accreditation. Every litre of paint is made to our precise formulation from the highest quality raw materials, which include the Dow FASTRACK resin system. Every batch is QC tested and retained samples are kept for up to 5-years.

Hi-Brite waterborne road marking paints are supplied ready for application to bituminous and concrete surfaces. The high impact, durable and fast drying properties of Hi-Brite waterborne paints helps to maximise bead retention and minimise traffic disruption post application.

The Hi-Brite formulation has undergone rigorous quality assessment and when tested under laboratory conditions to AS 1580.401.3 the paint achieves a no pick-up time under 2 minutes and 20 seconds – quite possibly the fastest in the Australian market. In field studies, a no pick-up time of under 2 minutes was achieved when the paint was applied at a wet thickness of 325um with 300g drop on beads per sq. meter in conditions of 22 degrees with 62% relative humidity and air speed under 5km/h.

### Key Facts

- APAS approved
- High film builds to 0.75mm
- Low VOC formula and non-flammable
- Cleans up and reduces with water
- Excellent atomisation and application characteristics
- Quick dry time
- Durable, abrasion resistant finish
- Flexibility to withstand road expansion
- High performance ability to hold large beads for enhanced retroreflectivity

### Paint Properties

- |                    |                                |
|--------------------|--------------------------------|
| • Density          | 1.63-1.72                      |
| • Viscosity        | 85-90KU @ 25 degrees           |
| • Volume Solids    | 63-65%                         |
| • Weight Solids    | 76.-81. %                      |
| • VOC Content      | 56g/l                          |
| • Approx. Coverage | 2.2sqm/Lat 300um dry thickness |
| • Approx. Coverage | 3.2sqm/Lat 200um dry thickness |

## Available Sizes

- 15 Litre Plastic Pales
- 200 Litre Steel Drums
- 500 Litre IBC
- 1000 Litre IBC

## Surface Preparation

Prior to application the surface should be dry and free of any oil, dirt, grease, loose surface material or other foreign matter. If the surface has previously been coated or treated then a marking test should be carried out to check and establish if further surface preparation is required.

## Hi-Brite Waterborne Preparation

The Hi-Brite waterborne paint collection is supplied ready to use through atomised or airless spraying systems. The product requires no thinning prior to use. Thinning is not recommended. Where water is used to thin the product if the application is to be brushed or rolled then a maximum of 1-2 % to volume is advised, adding a quantity greater than this will greatly increase drying time and can cause settling in the product

## Film Thickness and Glass Bead Application

Achieving the desired dry film thickness of the paint is critical in relation to adhesion of the bead type to be applied. Achieving the right thickness will maximise bead retention and promote the wearing properties of the product.

- Applying a wet film thickness of 400 um is the optimum from a retention and retroreflectivity perspective for use with a Type B or BHR glass bead (AS2009) when applied at 300g per square meter. The delivered dry thickness will be approx. 65% wet film thickness at 250um.
- Applying a wet film thickness of 600 um is the optimum from a retention and retroreflectivity perspective for use with Type D or DHR glass beads ranging from 0.8 - 1.2mm) when applied at 400g per square meter. The delivered dry thickness will be approx. 65% wet film thickness at 375um.

To achieve optimum retention, bead application should occur prior to skinning of the paint as it dries. Protecting the marking from any traffic type until dry will deliver the best results for a durability, bead retention and retroreflectivity.

## Slip and Skid Resistance

To mitigate the potential for skid and slip accidents, markings other than those which are longitudinal (transverse) should be treated with an anti-slip aggregate. To achieve the required anti-slip or SRT rating, apply a mixture of 300g drop on beads and 200g of a suitable aggregate (0.4-0.8mm) per square meter of transverse markings. To ensure optimum results the mixture should be evenly applied and prior to skinning of the paint as it dries.

## Dry Time and Application Conditions

The specific marking dry time will be dependent upon the thickness of the paint applied and the ambient weather condition at the time of application. If the humidity increases or the temperature / wind speed drops then the dry time of the paint will increase.

The optimum weather conditions to apply Hi-Brite waterborne paint is where the average air temperature is above 15 degrees, humidity is below 50% and wind speed is over 10kph. Where the ambient weather conditions move away from ideal conditions the dry time will increase and will require longer protection from traffic. The RMS Scientific Laboratory recommend (Ref TD 98-7 Doc 3148) that paint application should not occur where the air temperature is below 10 degrees or where the humidity is greater than 85%.

## Clean Up

Water! This is the optimum solution for cleaning up after waterborne application. Flush all equipment lines with water until it runs completely clear, don't let any residual paint dry in the lines as it is insoluble to most solvents. Waterborne paint should only remain in the equipment systems (tank and lines) where it is sealed to eliminate the possibility of drying and skinning.

## Storage and Transport

Hi-Brite waterborne paint is not classified as dangerous goods by the Australian code for the transport of dangerous goods (ADG Code). The product should be stored undercover and out of direct sunlight, stock should be used on a first in first out basis

## Support and Service

At RRSP, we look to offer our customers the right road and pavement system solution through a combination of fast service, reliable inventories, knowledgeable people, personalized attention, and competitive pricing which is perceived by our customers to be the best value available. Have a question on this product or any other we offer give us a call

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