

ENNIS TEMPORARY LINEMARKING SYSTEM

Product Specification

Product Code: WBTL

Ennis Temporary Linemarking System is a two-coat waterborne paint system designed for use where linemarking is required for a limited time and needs to be easily removed without damage to the pavement surface. The system involves the application of a coloured base coat followed by a top coat. Ennis Traffic Safety Solutions products are processed under an SAI Global accredited AS/NZS ISO9001:2000 Quality Management System in an APAS Recognised Manufacturing Unit and tested in a NATA (National Association of Testing Authorities Australia) accredited laboratory. All these quality management systems work together to ensure that all batches produced are consistent and meet the customers' requirements and specifications.

Physical Characteristics

Base Coat Colour : white (other colours available on request)
Base Coat Viscosity : 80 - 90 KU @ 25°C
Top Coat Colour : milky white liquid dries to a clear film
Top Coat Viscosity : water thin

Paint Preparation

Ennis Temporary Linemarking System is supplied ready for airless or air atomized spraying. Thinning of the paint is not recommended, however, if thinning is necessary, a small amount of water (1-2%) will greatly reduce paint viscosity. Adding too much water (i.e. >5%) will extend the drying time and promote settling in the paint.

Equipment

Ennis Temporary Linemarking System can be successfully applied using airless or air atomised equipment. The desired line width and film thickness can be achieved by varying the gun height, tip size, pump pressure and application speed. All components and surfaces of the application equipment in contact with the paint must be stainless steel, coated metal (epoxy) or plastic. The paint can also be successfully applied with a brush or roller for smaller applications.

Paint heaters can be used to control paint viscosity to provide consistent flow and atomization. Paint must not be heated above 40°C.

Surface Preparation

The road surface to be painted must be dry and free of any grease, oil, dirt, gravel, flaking pavement materials and any loose foreign material. The temperature of the surface should be above 10°C. If the surface has been previously marked or treated (such as the application of curing compounds with concrete) then a compatibility check should be carried out to establish if any surface preparation is necessary.

The use of *Ennis Waterborne Primer/Sealer* (Product Code: GT115WBP) has proven to be successful as a priming coat on surfaces where *Ennis Temporary Linemarking System* has experienced adhesion problems.

Film Thickness

The coloured base coat should be applied at approximately 400µm wet film thickness. The top coat should be applied at approximately 200µm wet film thickness and must cover the entire base coat. Allow the base coat to touch dry before applying the top coat.

ENNIS WATERBORNE PAINT

Application of Glass Beads

When the temporary marking is required to be retroreflective, intermix glass beads are applied at the rate of 350g/m² to the coloured base coat. To ensure maximum glass bead retention the intermix glass beads must be applied before the surface of the base coat begins to skin. The top coat is then applied as normal.

Increasing Skid and Slip Resistance

When using the *Ennis Temporary Linemarking System* markings (especially those subject to pedestrian traffic) other than longitudinal markings, should be treated to increase skid and slip resistance. This can be achieved by applying a mixture of 300g drop on glass beads and 200g 0.15-0.2mm quartz aggregate per square metre of coloured base coat. To ensure maximum glass bead and aggregate adhesion, the mixture must be applied before the surface of the base coat begins to skin. The top coat is then applied as normal.

Drying Time

The actual drying time of an applied line depends on the thickness of the line and the ambient weather conditions at the time of application.

An increase in the thickness of the line an increase in relative humidity or a decrease in wind speed or temperature can result in a longer drying time. Any addition of water will result in a longer drying time.

Application Conditions

The ideal ambient conditions for the application of *Ennis Temporary Linemarking System* are air temperature above 15°C, relative humidity below 50% and air movement greater than 10kph. In accordance with the RTA Scientific Laboratory recommendations (reference TD 98-7 Doc 3148), *Ennis Temporary Linemarking System* should not be applied in the following ambient conditions, where the air temperature is below 10°C, or when the relative humidity is above 85%. Where *Ennis Temporary Linemarking System* is applied in ambient conditions between the ideal and the unsuitable then the protection of the painted line may be necessary to avoid pick up and transfer of wet paint by the vehicle tyres. Application should cease if it is likely to rain within two hours.

Note:

To achieve maximum service life from a marking it should be:

- Applied in as close to ideal ambient conditions as possible
- Applied evenly at the correct film thickness
- Protected for as long as possible before it is exposed to traffic
- Monitored to ensure the service life required is provided

Clean-Up

Clean-up is easy – just use water! Flush all lines with clean water until the wash water is clear, even a slight haze in the wash water means that all traces of the waterborne paint have not been removed from the system. Do not let waterborne paint dry in the system, as dried waterborne paint is insoluble in most solvent and can be very difficult to remove. Very hot water can be used to soften and aid in the removal of dried waterborne paint.

Removal

A high pressure hot water blast will remove the *Ennis Temporary Linemarking System*. The hotter the water the less pressure is required and hence the chance of damaging the road surface is reduced. The *Ennis Temporary Linemarking System* is based on non-toxic material, however local regulations may require the collection of the material removed by water blasting.

Transport

Ennis Temporary Linemarking System is not classified as dangerous goods by the Australian Code for the Transport of Dangerous Goods by Road or Rail (ADG Code).

Storage

Store under cover or in a well shaded area. Rotate stock and use within six months of the date of manufacture.

Packaging

20 Litre plastic pail

Additional Information

Please contact Ennis Traffic Safety Solutions Pty Ltd if you require:

- A Material Safety Data Sheet
- Pricing and availability
- Or more specific information on this product or other products in the wide range of products manufactured by Ennis Traffic Safety Solutions specifically for the roadmarking industry.

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