

ENNIS PREFORMED THERMOPLASTIC

Product Specification

Product Code: TPxx (depending on dimensions, shape and colour)

Ennis Preformed Thermoplastic is a long life roadmarking material supplied preformed to size and shape ready for installation. *Ennis Preformed Thermoplastic* is manufactured from thermoplastic material conforming to RTA Spec 3357 and AS/NZS 4049.2

Physical Characteristics

Colour	: white*
Thickness	: 2-3mm
Luminance	: 75 minimum
Melting Point	: 150°C - 180°C
Skid Resistance (BPN)	: 50 minimum
Gradation of Mineral Content	: pass
Glass Beads Content (%w/w)	: 20 minimum
Abrasion Resistance (g/100rev)	: 0.6g maximum
Flash Point	: 230°C minimum
Density (g/cm ³)	: 1.9 – 2.0
Retroreflectivity (mcd/lux/m ²) after 1 year	: 100 minimum
Shapes Available	: lines, arrows, numbers, letters, symbols, logos

* Also available in all colours including yellow, black, disabled blue, orange, green and red.

Application

1. Clean and prepare the surface. Heat the area to be marked with a blow torch/burner to eliminate moisture trapped in the 'pores'. Heating also helps to burn off oil and grease films on the road surfaces.
2. Use suitable size burner. Burner head of 75mm diameter would be the minimum to give an even distribution of heat.
3. Remove the *Ennis Preformed Thermoplastic* roadmarking material from its protective package and place it in position on the road surface. Large markings may be made up of several pieces.
4. Apply heat evenly until thermoplastic begins to bubble. Softening the thermoplastic is not enough, the bitumen underneath must melt to allow proper bonding to take place. The marking should be heated to melting point (150°C to 180°C) and care taken not to overheat it. The correct temperature is easy to assess as the material will bubble and melt sufficiently to bond it permanently in position. The heated marking cools rapidly and is ready for traffic within minutes. Care should be taken not to touch the material whilst it is hot as serious burns can occur from hot thermoplastic materials.
5. As per Clause 5 of RTA Pavement Marking Specification R141 – "0.4 to 0.7mm white crushed quartz approved equivalent shall be uniformly surface applied to transverse lines and other markings while material is still molten". This provides initial skid resistance. Drop on glass beads can also be applied at the same time to give initial retroreflectivity.
6. When applying thermoplastic on concrete surfaces, Ennis Kreteprime must be applied prior to installing preformed thermoplastic. Ennis Kreteprime is a specially formulated primer or tack coat to enhance the adhesion of thermoplastic to concrete road surfaces.
7. Preformed thermoplastic is not suitable for application to bricks or pavers.

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Advantages

- Markings can be accurately positioned before installation.
- Minimum traffic disruption due to fast application.
- Minimum equipment, no clean up, no waste.
- Environmentally acceptable.
- Maximum service life.

Common Reasons for Failure

1. Moisture in the pavement
2. Oil and grease film on the pavement surface
3. Not enough heat applied

Transport

Ennis Preformed Thermoplastic is not classed as dangerous goods by the Australian Code for the Transport of Dangerous Goods by Road or Rail (ADG code) and should be transported as a top load.

Storage

Store under cover in a cool area and rotate stock. Do not place heavy items that could cause damage on top of the packages.

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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