

ENNIS ROADPLAST STRUCTURED MARKING

Product Specification

Product Code: CAP Sx (depending on colour)

Ennis Roadplast Structured Marking is a special formulated two-component cold-curing methacrylate-based roadmarking compound. It is formulated from Roadplast resin with the distinct property which allows the material, when correctly used, the capability to form 'raised structures', hence the name Structured Marking. These 'raised structure' formations couple with correct glass bead application to provide the much desired wet night visibility safety feature many road and traffic engineers are after in their road systems.

Ennis Roadplast Structured Marking is made from a tough, flexible acrylic polymer with the best quality pigments which provides excellent durability and wear properties.

Ennis Roadplast Structured Marking is utilised mostly in white for delineation but other colours are also available.

Surface Preparation

The condition of the road surface is important if maximum service life is to be expected from *Ennis Roadplast Structured Marking*. The road surface to be installed must be dry and free of any grease, oil, dirt, gravel, flaking pavement materials, and any loose foreign materials. The temperature of the pavement surface should ideally be above 10°C. If the surface has been previously marked or treated (such as the application of curing compound on concrete) then a compatibility check should be carried out to establish if any surface preparation is necessary.

The following points require special consideration:

- New bituminous surfaces should be allowed to age for at least 4 weeks
- Concrete surfaces should be primed with *Ennis Roadplast PrimerP1* (Product Code: MCAP1)
- Do not coat over thermoplastic marking
- Check compatibility over any previous markings

Application

Ennis Roadplast Structured Marking should only be applied with a special machine with features capable of operating mechanical or pneumatic driven 'shoes' system to produce the desired 'raised structures' or agglomerate pattern.

Ennis Roadplast Structured Marking requires the thorough incorporation of a powdered initiator, *Dibenzoyl Peroxide* (Product Code: MCAP2). The amount of *Dibenzoyl Peroxide* powder added will vary between 0.5% and 3.0% by weight *Ennis Roadplast Structured Marking* depending on material temperature and road surface temperature (Consult the table at the end of this application section for the amount of *Dibenzoyl Peroxide* required).

If temperature of the *Ennis Roadplast Structured Marking* material and road surface are similar then the pot life will be approximately be half the curing time of the marking.

Dibenzoyl Peroxide Powder Addition

The recommended amount of the *Dibenzoyl Peroxide* powder to be added to the *Ennis Roadplast Structured Marking* base or top coat is between 0.5 and 3.0 percent by weight.

The table below is a guide to the amount of the *Dibenzoyl Peroxide* powder addition required by indicating how the pot life and curing time of the *Ennis Roadplast Structured Marking* base and top coat is affected by the temperature and the amount of *Dibenzoyl Peroxide* powder added.

ENNIS COLD APPLIED PLASTIC

<i>Temperature (°C)</i>	<i>Hardener (% by Weight)</i>	<i>Pot Life (Mins)</i>	<i>Curing Time (Mins)</i>
10>	3.0	15	55
20>	1.5	10	45
30>	0.7	15	40

Transport and Storage

Refer to product Material Safety Data Sheet (MSDS).

Packaging

25kg (~16L) pail

Additional Information

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

- An MSDS
- 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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