

ENNIS ROADGRIP

Product Specification

Product Code: Roadgrip BC/TC

The *Ennis Roadgrip* system has been developed to produce a premium coloured slip resistant road surfacing system on bituminous and concrete roads.

The *Ennis Roadgrip* system consists of a base coat which is embedded with a suitable aggregate and a top coat which seals the system and provides an evenly coloured finished surface.

Ennis Roadgrip products are two component Methacrylate acrylic resin based materials which cure by polymerisation. There is no evaporation of solvent involved in the curing process so the applied film thickness is the same as the dry (cured) film thickness. Once *Ennis Roadgrip* has cured (polymerised) the marking is ready for immediate use and no further aging time is necessary.

Ennis Roadgrip is formulated on a tough, flexible acrylic polymer and the best quality pigments available to ensure that the *Ennis Roadgrip* system has excellent durability and wear properties.

Ennis Roadgrip is produced in a range of colours commonly used on walkways, median strips, and bicycle and bus lanes. Special colours may be available on request.

Surface Preparation

The condition of the road surface is important if maximum service life is to be achieved from the *Ennis Roadgrip* system. The road surface to be coated must be dry and free of any grease, oil, dirt, gravel, flaking pavement materials, and any loose foreign materials. The temperature of the surface should ideally 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 following points require special consideration:

- New bituminous surfaces should be allowed to age for at least four weeks
- Concrete surfaces should be primed with *Ennis Roadplast Primer P1*(Product Code: MCAP1)
- Do not over coat thermoplastic markings
- Check compatibility over any previous pavement markings

Once the surface has been prepared and primed if necessary the three stage *Ennis Roadgrip* application process can be commenced.

Application

Once the surface preparation is complete the *Ennis Roadgrip* system coat can be applied.

The *Ennis Roadgrip* base and top coat require the thorough incorporation of *Dibenzoyl Peroxide* powder (Product Code: MCAP2) to initiate the polymerisation curing process. The amount of *Dibenzoyl Peroxide* powder added will vary between 0.5 and 3.0 percent by weight depending on the temperature of the *Ennis Roadgrip* base coat and the road surface. (Consult the table at the end of this application section for the amount of *Dibenzoyl Peroxide* required).

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

Base Coat

Ensure the *Ennis Roadgrip* base coat is well mixed and homogeneous before adding the *Dibenzoyl Peroxide* powder.

ENNIS COLD APPLIED PLASTIC

Then just before applying the Ennis *Roadgrip* base coat add the *Dibenzoyl Peroxide* powder and mix it in thoroughly. This is best done by using a mechanical stirrer.

Apply the mixed *Ennis Roadgrip* base coat by spreading with a suitable trowel or squeegee at the rate of 2.1kg per square meter.

Aggregate

Immediately after the application of the *Ennis Roadgrip* base coat, broadcast the appropriate aggregate. The base coat must be fully covered and any excess aggregate can be swept up and reduced once the base coat has cured.

Top Coat

Once the base coat has cured and the loose aggregate has been removed, the top coat can be applied.

Ensure the *Ennis Roadgrip* top coat is well mixed and homogeneous before adding the *Dibenzoyl Peroxide* powder.

Then just before applying the *Ennis Roadgrip* top coat add and thoroughly stir in the required amount of *Dibenzoyl Peroxide* powder.

The *Ennis Roadgrip* top coat is applied at the rate of 0.9kg per square meter. This can be done by using a cheap polyester fibre paint roller which is discarded after use.

Once the top coat is cured the system is ready for service.

Dibenzoyl Peroxide Powder Addition

The recommended amount of the *Dibenzoyl Peroxide* powder to be added to the *Ennis Roadgrip* 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 Roadgrip* base and top coat is affected by the temperature and the amount of *Dibenzoyl Peroxide* powder added.

Temperature (°C)	Hardener (% by Weight)	Pot Life (Mins)	Curing Time (Mins)
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

28kg (~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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