



Degadur 450 Roadmarking Compound RC1

PRODUCT INFORMATION BULLETIN

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Description

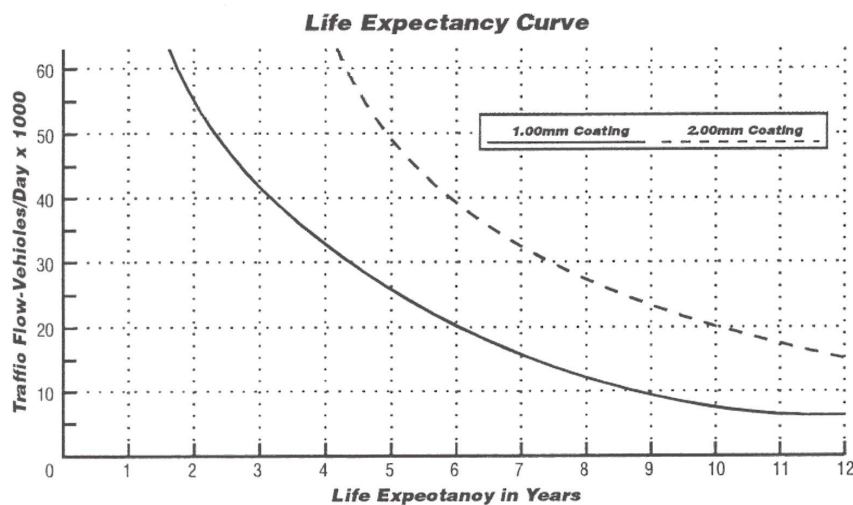
Degadur 450 is a cold hardening methacrylate road marking compound. The product comes as a two part system, is easily applied, no mechanical equipment is needed and the life expectancy far exceeds that of conventional paints.

Use

1. High volume traffic intersections
2. Pedestrian crossings
3. Directional arrows
4. Parking bays and Keep Clear signs

Application

Degadur 450 can be used as a hand screeded product using masking tape approximately 4 centimetres wide to delineate lines, letters and symbols etc. Then spreading the product between the tapes using a trowel or throw-away cardboard spreader.



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Hardening

Degadur 450 is hardened by the introduction of BPO (Benzoyl Peroxide) powder at a ratio of 10mls per litre or 100mls to a 10 litre tin.

Curing times

Experience in Australia shows Degadur 450 will be trafficable in about 20 minutes @ 20°C using 10mls hardener to 1 litre of product prior to use. The product can be adapted to variations in road surface temperature by using more or less hardener but never use less than 50mls per 10 litre tin or more than 200mls per 10 litre tin.

Pot Life

Pot life will vary dependent on percentage of hardener added and the ambient temperature but will mainly be between 10 and 12 minutes.

Storage and Shelf Life

450 Degadur should be stored at temperatures below 20°C where a shelf life of at least six months can be expected.

Thickness

The thickness of the line can be varied to the economics of traffic density, road surface condition, and durability required. In Australia most highway authorities apply 1.5 to 2mm thick.

Coverage

Coverage will depend on the type of road surface eg; hot mix asphalt, open aggregate, concrete etc., however calculations can be based on one litre per square metre, 1mm thick, on a smooth hot mix surface.

Durability

Life expectancy of Degadur 450 will vary with road conditions, the thickness of product applied and traffic density and type. In the twenty years the product has been used in Australia sufficient documentary evidence* has been gathered showing up to ten years and more can be expected even on transverse markings on busy intersections. (Refer TCP graph showing life expectancy curves.)

*Refer "Developments in the Search for Effective and Economical Roadmarking" by F.A. McDonald B.E. (Civil), C.E.M.I.E. Aust., Roadmarking Operations Engineer, Vic. Roads.

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Application – Surfaces

Degadur will bond well with most clean, dry, non greasy surfaces. However, comment should be made on the following:

New Road Surfaces

As with conventional road marking paint it is not recommended that Degadur be applied to freshly sealed bituminous surfaces. It is normally better to wait a few weeks as early application can result in bleeding of the cutting oils causing blackening of the product.

Concrete Surfaces

For concrete surfaces TCP air dry or activated concrete primer should be used for optimal life expectancy. The concrete should be fully cured before application of either the primer or product.

Wet or Greasy Surfaces

Degadur 450 should not be applied to wet surfaces. “Grease spots” can however be covered providing the excess grease or oil has been removed and the residue “flashed off” with methylated spirits.

Recoating of Degadur Surfaces

A big advantage of Degadur Markings is that (unlike thermoplastic markings) they can be recoated with fresh Degadur and a complete bond to the original marking obtained. High wear areas can be recoated without the need to recoat the entire marking.

Previously Painted Markings

450 Degadur can be applied over WELL BONDED painted lines, providing the paint used contained no phenolic resins. It is advisable to test a small area before proceeding, and any loose or flaking paint must be removed.

Thermoplastic

Degadur should not be applied over thermoplastic. It will bond to the thermoplastic, however there is a tendency for the thermoplastic to crack and lift from the road surface. All existing thermoplastic markings should therefore be removed prior to application of Degadur 450.

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Metal Surfaces

Good results have been obtained on steel, aluminium and galvabond but it is advisable to check with TCP regarding the application and particularly where anti corrosive primers have been used.

Wood Surfaces

Applications to dry wooden stair treads as an anti skid treatment have proved satisfactory (indoors). However outdoor usage is limited due to the difficulties in keeping the wood totally dry prior to application.

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