

## DAMAR COLD APPLIED PLASTIC (CAP)

### Description

A 2-component, solvent-free reactive methyl methacrylate, cold plastic for permanent markings on bituminous coverings and pre-treated concrete, suited for flat, structured and audio-tactile marking systems. Damar Cold Plastic comes in two viscosity variants standard is used for structured and flat markings and the other a higher viscosity for Audible Tactile System "Ribs" is required.

### Item names and order numbers

- **White** Item number: **ARK0142**
- **Yellow** Item number: **ARK0146**
- **Hardener** Item number: **ARK0026**

Use in conjunction with coated Type B or BHR beads.

### Features

- Application over all known road marking types.
- Excellent resistance to abrasion and weathering.
- High elasticity.
- Good adhesion, water and thawing salt resistance.
- High skid resistance.
- High visibility at night times and in rain.

### Limitations

- Do NOT use on paving stones.
- Do NOT apply when ambient temperature is below 5°C or above 30°C.
- Do NOT apply to WET roads.
- Use only coated Type B or BHR beads with this product.
- Adding more thinning solvent MMA than 500ml per 30kg Bucket can stop the curing reaction.
- Application to concrete is problematic due to large variations in drying agents and surface finishes available, plus surface contaminations.
- For application to concrete surfaces please refer to concrete application sheet.

### Properties

<b>Resin System</b>	Reactive Acrylate
<b>Pigmentation</b>	Titanium Dioxide
<b>Finish</b>	Matt
<b>Colour</b>	White and yellow
<b>Dilution Rate</b>	Use as supplied
<b>Density kg/litre</b>	White 1.988, Yellow 1.85
<b>Volume Solids</b>	100%
<b>Liquid BPO Hardener</b>	1-2% by weight
<b>Pot-Life @25°C</b>	5 – 12 minutes, dependant on temperature
<b>Number of Coats</b>	Generally 1
<b>Thinning Solvent</b>	Methyl Methacrylate (MMA), Max allowed 500ml per 30kg bucket
<b>Coverage in structure Pattern</b>	See below photo or use Zehntner App www.zehntner.com
<b>Clean Up</b>	Thinners PF2 MEK or PF4 Toluene

### Surface Preparation

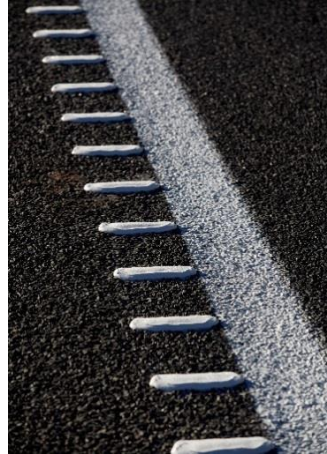
Direct application to hotmix asphalt and chip seal. New surfaces should be left for 4 weeks and free from oil film. This can be removed by water jet blasting. Direct application to concrete is NOT recommended. Allow 28 days curing period for new concrete and then apply a coat of CAP Concrete Primer, prior to application of Damar Cold Plastic. Ensure seal is clean and free from oil, grease and dirt contamination, and all loose chips.

### Limitations continued

- Ensure all underlying road markings are fully cured before application of Damar CAP.
- If Damar cold applied plastic (CAP) white or yellow is to be applied onto the surface of water based coatings they must have a minimum curing period of 4 weeks which is dependent on environmental conditions.

**Structured Application**

**Audible Tactile System**



**Theoretical Coverage Asphalt - grams per lineal meter white or yellow line (100mm wide)**

<b>Audible Tactile System</b>	(Rib only-250mm centres) 295 gram <b>Bead - Type B or BHR beads Coated</b>
<b>Flat Application</b>	450 gram <b>Bead - Type B or BHR beads Coated</b>
<b>Structured Application</b>	280 gram <b>Bead - Type B or BHR beads Coated</b>

**Theoretical Coverage Chip Seal - grams per lineal meter white or yellow line (100mm wide)**

<b>Audible Tactile System</b>	(Rib only-250mm centers) 384 gram <b>Bead - Type B or BHR beads Coated</b>
<b>Flat Application</b>	585 gram <b>Bead - Type B or BHR beads Coated</b>
<b>Structured Application</b>	364 gram <b>Bead - Type B or BHR beads Coated</b>

**Track-Free Time**

- Minimum Coning off time, dependent on ambient temperature and humidity, 30 minutes at 25°C60% relative humidity.

**Approvals**

New Zealand NZTA M/20  
 New Zealand NZTA M/24  
 Australia APAS 0041/3

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### Standard packaging

- Coating 30kg Pail / 1500kg
- Liquid BPO Hardener 20kg Pail

### Accessory materials

- Thinner PF2 MEK or PF4 Toluene to rinse and clean only.

### Disposal

#### Storage Stability

- 12 months in original sealed package.
- Product must be stored under cover in a cool dry place.
- Stirring prior to use is recommended.
- Protect from frost.

Dispose with care according to local regulations.

### Safety Regulations

	Component A	Component B	Component C Powder	Component C Liquid
<b>Toxicity</b>	4	4	4	4
<b>Flash Point</b>	10°C	10°C	-	-
<b>D.G.Class</b>	3	3	5.2	5.2
<b>UN No.</b>	1263	1263	3106	3106
<b>Packaging Group</b>	III	III	II	I

**Note:** This product is free from aromatic solvents. The use of personal protective equipment such as safety glasses, gloves, overalls etc is mandatory when handling these products, especially the hardener. Refer to Material Safety Data Sheet for this product.