



## TECHNICAL DATA: Preform Thermoplastic

Standard Colour:	White, Black
Enhanced Colour:	Yellow, Blue, Red and Green Terracotta, Lilac (Specials if pigment is available)
Maximum adhesive bond:	5 Minutes
Shelf Life:	Indefinite if stored in dry conditions out of direct sunlight
Usable temperature range:	-5° to 50° C
UV Resistance:	Very Good
Optimum application temperature:	Above 5° C
Chemical Resistance:	Good resistance to Water, motor oil, hydraulic fluid.
Incidental Contact:	Petrol and diesel.
Suitable application:	Roads, highways, footpaths, car parks Shopping Malls etc.
Product meets the following Standards and Specifications: AS4049.2, RTA & VIC Roads	

### SURFACE PREPARATION

All surfaces must be clean, dry and free from oil, grease, petrol, waxes and loose adhered material prior to the application of Perform.

#### Metals

Rust and paint should be removed to ensure proper adhesion between the primer and the surface.

#### Wood

Should be smooth, sound and dust free.

#### Concrete and Masonry

Must be sound and non-crumbling, and all the dust and grit removed. All concrete should be over 28 days old before attempting any application.

### APPLICATION

#### Priming

To achieve the strongest possible bond we recommend treating the surface first with DPI **Thermo primer** before applying the Preform Pavement Line Marking. After priming, a drying time of at least 10minutes

subject to weather conditions should be allowed prior to laying the Preform.

#### Laying

Mark out the area and accurately position the Preform. Start heating at one end, tacking the edges before melting the whole item.

#### Application

Work consistently from one end to the other ensuring that the edges are melted down evenly. As the Preform reaches its molten state apply Thermo Beads (70/30 (preform/beads)) mixing evenly over the Flex-Therm.

Once the Preform has been bonded in to place, allow 5-10 minutes to cool and cure, depending on the weather conditions.

Once the Preform is in place and allowed to cool it is immediately ready for use.

#### Applying Preform to difficult surfaces.

There are some surfaces to which it may be difficult to apply Preform or one may be unsure as to the compatibility. For example, Alkyd or epoxy resin may have "waxy" ingredients which resist adhesion bonding. Some concrete may contain accelerants or silicone ingredients which may repel adhesion.

As there are so many variables it is impossible to allow for every eventuality but as a rule, ***if you are not sure, test it.***

**Test Patch.**

Routine would be to apply a piece of Preform to a clean, dry surface in a normal traffic area and leave for a minimum of 7 days. If after this it is still securely applied, then the surface is suitably compatible.

**Effect of Water when applying Preform.**

The bond between the bituminous road material and Thermo plastic is caused by the fusion of bitumen on the road surface and hot thermoplastic applied at 180-220°C. Hence any material on the road surface that prevents this bond will cause failure in the lining.

One of the main causes of failure is the presence of moisture on the pavement and heavy mists,

It is difficult to know how long after a downpour before preform thermoplastic can be applied. There are many factors that affect the drying period. Sometimes it can be a few hours if conditions are hot and dry or it can be up to 24hours if it is cold and damp or hot and humid.

chiselling into the preform and substrate. The preform should still adhere to the substrate after the piece has been chiselled away.

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**Technical Help Line:** AWIS Preform

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The information contained in this Technical Bulletin is as up to date as possible at the time of issue. The data provided therein should be used as a guide only as the performance of the product will vary depending on the operating and application conditions.

The sale of any product described in this technical Bulletin will be in accordance with AWIS Preform Conditions of Sale, a copy of which is available on request. To the extent permitted by law, AWIS Preform excludes all other warranties in relation to this product.

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**Chisel Test.**

The chisel test is the final test to ascertain if the thermoplastic has bonded to the pavement material. Using a hammer and chisel remove a small corner to confirm adhesion has occurred by