

APCO Road Marking Profile Thermoplastic White

Production Description

APCO Profile Thermoplastic White is a long life road marking material manufactured to conform to RTA 3357, AS 4049.2 and BS 3262: Part 1: 1989 standards. It is formulated with the distinct property which allows the material, when correctly applied, the capability to form raised ribs / blocks. These raised rib / block formations provide the safety feature of providing an audio-tactile warning to drivers straying out of their lane.

Areas of Application

APCO Profile Thermoplastic White is for road & line marking of bituminous roads, and highways. Pre-treat all concrete surfaces with a tack coat.

Technical Data

Colour Range	White
Application Temperature	180° C to 200° C
Maximum Safe Heating	230° C
Softening Point	85° C minimum
Density	1.9 -2.0 (g/cm ³)
Luminance	80 minimum
Loss Factor	5% maximum
Skid Resistance (BPN)	55 minimum
Flow Resistance	2% maximum
Gradation of mineral content	RTA T855 Pass
Glass bead content	20% (w/w) minimum
Abrasion resistance	0.6g/100 revolutions maximum
Flash Point @ ° C	230° C minimum
Packs available	1,000 kg, 500 kg (other sizes on request)
Component	One Component
Transportation	Not classified as dangerous goods by Australian Code (ADG Code)
Australian specification	RTA 3357, AS 4049.2 & BS 3262. Part 1: 1989 standards

Application

Thermoplastics are resistant to climatic extremes. Colour fastness is excellent with a very low tendency to pick up dirt. Normal spraying temperatures are in the order of 200°C and as a result the material fuses to dry bituminous surfaces. One of the most common types of road marking based on its balance between cost and performance longevity. Their use has increased over paints mainly due to the performance benefits of increased durability, retro-reflectivity, and a lack of VOC solvents. Thermoplastic markings are applied using specially designed vehicles. Thermoplastic road marking should only be applied with specialised equipment for coating traffic lines. The road marking paint needs preheating by the device commonly called a preheater. The thermoplastic mix is heated in trucks before being fed to

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the application apparatus. Immediately after the thermoplastic has been applied, glass beads are laid onto the hot material so that they embed before the thermoplastic hardens. These beads provide initial retroreflection. As the marking wears during use and the initial beads are lost, the beads mixed with the binder are uncovered, providing long term retroreflectivity. Thermoplastic markings are usually only economical when larger quantities are involved and must be applied by trained and skilled personal.

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Surface Preparation

Ensure that the area where line marking is to be done is clean and free from all dirt, dust, grease, oil, loosely adhered material and all other surface contamination. If any mould or fungus is present on the surface, wash it with a commercial bleaching agent and then with rinse with clean water. Allow the surface to dry fully before application.

Colour Check

Check colour to the colour chart/standard prior to application.

Flammability & Transport Information

- Non-flammable.
- Ensure container is upright with lid secure.
- Ensure the container is secured in the vehicle for transport.

Environmental

- Do not clean equipment and allow waste to enter drains and water ways.
- Do not dispose of unwanted product and cleaner that will enter drains and water ways.
- Refer to state / local EPA and council web sites for environmental and safe disposal details.

Safety & Precautions

- Do not apply in environments of high humidity/moisture, or if pending rain is a possibility.
- Apply in calm fine weather conditions.
- Cease application if weather changes are forecast.
- Check colour to the colour chart/standard prior to application
- Provide adequate ventilation during use.
- Keep out of reach of children
- Check cross cut adhesion test of old coating before repainting.
- Apply a test sample for compatibility of this product over a small test area.

The technical information and suggestions for use and application are given in good faith. Since conditions of use are beyond the manufacturer's control, information contained herein is without warranty, implied or otherwise. The manufacturer does not assume any liability for any loss or injury resulting from the use of the product. Colder temperature, higher film thickness and higher humidity conditions will require longer drying times.

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 Reviewed June 2019

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