APCO Road Marking
Spray Thermoplastic Yellow

Production Description

APCO Spray Thermoplastic Yellow is a long life road marking material manufactured to conform to RTA 3357 and AS 4049.2 standards.

Areas of Application

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

Technical Data

Colour Range	Yellow
Application Temperature	180° C to 200° C
Maximum Safe Heating	230° C
Softening Point	90° C minimum
Density	1.9 -2.0 (g/cm^3)
Luminance	50 minimum
Loss Factor	5% maximum
Retro Reflectivity (after 12 months)	100 minimum (mcd/lux/m^2)
Skid Resistance (BPN)	55 minimum
Flow Resistance	10% 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

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 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.

APCO Coatings 111 Kurrajong Avenue Mt Druitt NSW 2770 Phone (02) 9832 0000 / info@apcocoatings.com.au
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