

APCO Road Marking Aqualine Thermoplastic White

Production Description

This product is manufactured to RMS standards and conforms to RTA 3357, AS 4049.2 & BS 3262. Part 1:1989 APCO Aqualine Thermoplastic White provides long life road marking. Using a patented application technique combined with a special slump resistant thermoplastic, creates a series of profile ridges that improves drainage of water. The angled face of the ridges reflects light back to the vehicle with increased efficiency in wet conditions.

Areas of Application

APCO Aqualine Thermoplastic is for road & line marking of bituminous roads, 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	95° C minimum
Density	1.9 -2.0 (g/cm ³)
Retro Reflectivity (after 12 months)	150 minimum (mcd/lux/m ²)
Luminance	80 minimum
Loss Factor	5% maximum
Skid Resistance (BPN)	55 minimum
Flow Resistance	10% maximum
Gradation passing 600 microns	65 – 95%
Glass bead content	30% (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.

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.

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. Cooler temperature, higher film thickness and higher humidity conditions will require longer drying times