



“Creating a Safe Environment for All Road Users”

DPI Screed Thermoplastic

Product Description

DPI Screed Thermoplastic Pavement Marking Materials, is a non-hazardous and environmental-friendly product, are used for the delineation of various types of road surfaces to increase the safety and provide the guidance for all road users. The binder systems are based on petroleum and alkyd resins. Due to its excellent wear-resistant durability, resistance to diesel drop, high retro-reflectivity, and anti-slip properties, DPI Screed Thermoplastic Pavement Marking Material is especially suited for use on the heavy-traffic roads and 'black-spot' areas.

Physical and Chemical Properties

Whiteness/Luminance	> 80% (White)
Glass Beads Content	> 20%
Flash Point Temperature	> 230°C
Softening Point	> 100°C
Density	1.9 - 2.1 g/cm ³
Skid Resistance	> 45 BPN
Abrasion Resistance	< 400 milligram for 500 cycles
Application Temperature	190°C - 210°C

Application Guideline

DPI Screed Thermoplastic is applied through professionally trained personnel using motorised or manual screeder and hand screed. Proper safety gears and protection wears are essential during the application. Ensure the thermoplastic is liquefied completely with constant upward stirring to make sure glass bead is homogenous. The material temperature for application is recommended to be 190°C to 210°C depending on the substrate and ambient temperature is within the range of 10 – 60°C. If temperature is over 230°C, discolouration will occur, decomposition of thermoplastic will take place, and explosive gas may be generated.



Technical Data Sheet

16th January 2021

Revision: 03

Do not apply thermoplastic materials on a freshly laid bituminous asphalt surface. It requires weathering for 20 - 30 days before application. It is noted that the product is not suitable for road with frequent heavy-duty trucks. Stop right away if there is any doubt of peeling issue, especially where markings exist, or the job site roadway surface is concrete, loose or oxidised. Worn and concrete surface must be applied with a coat of DPI Thermo Primer.

Remove existing, worn and loose pavement markings such as waterborne paints, solvent borne paints and cold applied plastics by grinding before applying thermoplastic to form proper bonding.

Clean out dirt, loose particles, oil and grease patches before applying. Ensure the road surface is completely dry before application of material especially under conditions of heavy rainfall, low ambient temperature, and heavy mist. Delaminating will occur if road surface is wet. Do not apply if road surface temperature is less than 10°C, unless the road surface is preheated to above 10°C before applying.

At the end of work, please do not switch off preheater and applicator at high temperature. continue stirring until the molten thermoplastic temperature is below 120°C to prevent from carbonised material.

Shelf Life and Storage

Please store under cover and in cool and dry condition. Recommended product shelf life is 6 months from the product received date.

Health and Safety

Before using this product, please consult our Material Safety Data Sheet (MSDS) for information on safe handling and storage.



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Our Quality Commitment

Dura Products Industries-DPI focuses on longstanding commitment to continue its outstanding service to customer, and continuously strive for quality improvements and development of new and highest quality road safety products. Our long term aim has always been to “Create a Safe Environment for all Road Users”.

DPI is the holder of ISO 9001:2015, ISO 17025:2017 and APAS certificate, conforms to Australian Standard Specification AS 4049.2, NSW RTA/RMS QAS 3357, APAS 0041/4 and High Performance Specification R145.

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