



Manufacturer's Test Certificate of Quality

Color: WHITE

Quantity: 20000 kg

Proportion of Constituents of Marking Material (% by Weight)

Components	Requirement as per MORTH .803	Results Achieved (Lab Test)	
Binder	18.00 MIN.	18.3	Batch No: 2500-24
Glass beads	30-40	30	
Titanium Dioxide	Min.10	11	Date of Manufacturing: 05/04/2024
Calcium Carbonate & inert fillers	52.00 Max	40.7	

Physical Characteristics

Properties	Requirement as per MORTH .803	Results Achieved (Lab Test)
Daylight Luminance	65% minimum	81
Drying Time/molten life limit	Not more than 15 minutes	9
Skid Resistance	Not less than 45	57
Cracking Resistance At low temp.	To pass the test	Pass
Softening Point	102.5± 9.5C	103.00
Flow Resistance	Not more than 25%	.050
Yellow Index	NA	NA





Applying thermoplastic road marking paint requires careful preparation and execution to ensure durability and visibility. Here's a step-by-step guide:

Materials Needed

- Thermoplastic road marking paint
- Melting kettle or applicator
- Road surface cleaner (e.g., pressure washer)
- Broom or sweeper
- Measuring tools (tape measure, chalk line)
- Safety gear (gloves, goggles, mask)
- Road marking tools (stencils, rollers, brushes, or spray equipment)

Steps for Application

1. Preparation of the Road Surface

- **Clean the Area:** Remove dirt, dust, oil, and any debris from the road surface using a pressure washer or a broom. Ensure the surface is dry before proceeding.
- **Repair Surface:** Fill any cracks or potholes to create a smooth surface for marking.

2. Planning the Layout

- **Measure and Mark:** Use measuring tools to determine the exact placement of the markings. Use chalk lines or spray paint to outline where the thermoplastic paint will be applied.
- **Check Regulations:** Ensure that your markings comply with local traffic regulations regarding dimensions, colors, and placement.

3. Heating the Thermoplastic Paint

- **Melt the Paint:** Use a melting kettle to heat the thermoplastic paint to the required temperature (usually between 200°C to 220°C or 392°F to 428°F). Follow the manufacturer's instructions for specific temperature settings.
- **Stir Regularly:** Ensure the paint is mixed evenly to avoid color inconsistencies.

4. Application of the Paint

- **Apply Evenly:** Use a road marking machine or a hand-held applicator to apply the molten thermoplastic paint onto the prepared surface. Aim for a uniform thickness, typically around 2 to 2.5 mm.
- **Use Stencils if Necessary:** For symbols or letters, use stencils to ensure accurate shapes and sizes.

5. **Cooling and Setting**

- **Allow to Cool:** The applied paint will cool and harden quickly, usually within a few minutes. Avoid traffic on the marked area until the paint has fully set.
- **Check for Quality:** Inspect the markings for uniformity, thickness, and adherence to the surface.

6. **Cleanup**

- **Clean Equipment:** Clean any equipment used during the application process while the paint is still warm, as it becomes difficult to remove once it cools.
- **Dispose of Waste Properly:** Follow local regulations for disposing of any leftover paint or materials.

Safety Precautions

- Always wear appropriate safety gear, including gloves and goggles, to protect against fumes and contact with hot materials.
- Ensure adequate ventilation if working in a confined space.

Maintenance

- Regularly inspect road markings for wear and tear, especially in high-traffic areas, and plan for reapplication as needed to maintain visibility and safety.

By following these steps, you can effectively apply thermoplastic road marking paint to ensure clear and durable road markings.

