

STP Coloured Mastic



Coloured Mastic for Aesthetic and Special Applications for Roads and Pavements **STP Limited**

Description

STP Coloured Mastic is a synthetic binder developed for use in the production of Coloured Mastic by hot mix process. The binder is polymer modified making it an ideally strong and flexible binder for high performance asphalt. **STP Coloured Mastic** can be designed to meet specific purpose and to provide a strong and durable coloured pavement solution.

STP Coloured Mastic is available in Yellow, Red & Green colour. Other colours may be produced depending on quantum.

Characteristics

Appearance	Off white solid	Penetration (25°C, 100g, 5 sec), d-mm	10 - 30
Specific Gravity @ 27°C	1.30 - 1.50	Theoretical coverage, kg / m ² , 25 mm thickness *	18 - 22
Softening Point, °C	60 - 70		
Ductility @ 27°C, cm	> 50	Flash Point (COC), °C	> 200

Application

- Tunnels.
- Boardwalks and Promenades.
- Architectural applications.
- Office buildings, Car parks.
- Sports venues and stadiums tracks.
- Parks and Squares.
- Toll plaza / Roundabouts.

Advantages

- Wide range of long-lasting colour option.
- Greater creativity for landscape and architectural applications.
- Increased safety, guiding of traffic due to higher contrast, e.g., cycle tracks, coloured bus lanes, pedestrian lanes, speed limit lanes, etc.
- Increased ride comfort and reduced noise.
- Mechanical resistance equal to that of a conventional asphalt mixture.
- Enhanced safety and traffic discipline.
- Cost effective, durable and easy to maintain.
- Easy application using conventional equipment.

Equipment and Machinery for Mastic Asphalt Construction

- Mastic cooker ½ to 1 ton capacity – 1 no.
- Tack coat spraying appliance
- Wheel barrows and Flat mortar pans adequate in numbers to suit to the requirement
- Wooden trowels, heavy wooden floats, suitable hand tools, gauge, straight edge and hand level
- Angle irons or wooden strips required to contain the mastic in required width and thickness
- Water tanker – 1 no.
- Broomer – 1 no.
- Air compressor – 1 no.
- Measuring can

Preparation of Mastic Asphalt Mix and Transportation

- Heating of aggregate, fine aggregate and filler will be done to a temperature of 170 - 200°C in a mechanically agitated mastic cooker.
- The required quantity of **STP Coloured Mastic Component-A** heated to 170 - 180°C will be added and cooked for half hour for proper mixing.

- **Component-B** will be added, and heating of the mix will continue for an extra half hour.
- During mixing and cooking, utmost care should be taken to ensure that the mix in the cooker at no time heated to a temperature exceeding 205°C.

Mastic Asphalt Laying

- The base surface over which Mastic is to be done will prepared, shaped and conditioned.
- The surface will be swept clean and made free from dust and other harmful matter.
- The **Tack Coat** of **ShaliPrime SB** will be applied approx. 200 - 400 gm / m².
- The tack coat should be applied more than 2hrs before and must be touch dry.
- To receive and contain the mastic MS angle section or wooden strips of size 25 mm are placed at required spacing till the finish of the job.

Laying of Mastic Asphalt Mix

- The **STP Coloured Mastic** will be deposited directly on the prepared base immediately in front of the spreader where it is spread uniformly by means of wooden floats to the required thickness.
- The mix will be laid in one-meter width confined between standard angle iron or wooden strips of size 25 mm to receive and contain the mastic of required thickness.
- The temperature of the mix at the time of laying will be at least 170°C.
- In case blowing takes place while laying the Mastic, the bubbles will be punctured while it is hot and the surface treated well.
- Extreme care will be taken while fixing angle iron or wooden strips, and their level checked with the instrument at suitable intervals.

Mastic Joints

All construction joints will be made by warming the existing **STP Coloured Mastic** by application of an excess quantity of hot **STP Coloured Mastic**, which afterwards will be stripped off to make it flush with the surface on the other side.

Surface Finish of Mastic

After spreading the **STP Coloured Mastic** pre-coated aggregates of approved quality of 9.5 - 13.2 mm size is pressed or rolled into the surface when the temperature of mastic asphalt is between 80 - 100°C. The chips shall be pre-blended with **STP Colour Mastic**.

Health & Safety

- Avoid contact with skin / eyes and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable heat protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

Packing

Available in 200 kg drums.

Storage

Keep in cool and dry place, in air tight containers, under shed, away from heat.

Shelf Life

12 months in original unopened sealed conditions.



STP Limited
Enhancing Structures' Life

Product Range

- Waterproofing and Insulation ■ Road Surfacing
- Sealants and Additives ■ Pipeline Coating
- Protective / Anti-Corrosive Coating ■ Epoxy Flooring
- Grouts / Admixtures ■ RestoFix- Repair / Rehabilitation
- Other Construction Chemicals



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