

TECHNICAL DATA SHEET

POLYMER MODIFIED BITUMEN PMB 50/90-55



IQTB-800-QL-TDS-0017

DESCRIPTION

Polymer Modified Bitumen (PMB) 50/90-55, compliant with IS 15462:2019, is a high performance road binder formulated with SBS Polymers to enhance elasticity, rutting resistance, and fatigue life. Engineered for demanding applications such as highways, runways, and heavy-load zones, PMB 50/90-55 offers superior durability and performance in both extreme temperatures and high-traffic conditions.



SPECIFICATIONS

Test	Specification	Unit	Test Method
Penetration @ 25°C	50-90	mm/10	ASTM D5
Softening Point (R & B)	55 Min	°C	ASTM D36
Fraas breaking point	-10 Max	°C	ASTM D746
Flash point °C	220 Min	°C	ASTM D92
Viscosity at 150°C	3 to 9	Pa.s	ASTM D4402
Elastic Recovery of Half Thread in Ductilometer at 15°C	30 Min	%	ASTM D6084
Thin Film Oven Test & Test on Residue (ASTM D2872)			
Loss in Mass	1.0 Max	% Wt	ASTM D6
Reduction in Penetration of residue at 25 °C	35 Max	!%	ASTM D5
Increase in Softening Point	5 Max	°C	ASTM D36
Elastic recovery of half thread in ductilometer at 25°C	35 Min	!%	ASTM D6084

RECOMMENDED WORKING TEMPERATURES

- Storing Temperature (°C): < 180.
- Mixing Temperature (°C): 140-160.
- Overheating limits (°C): < 190.

GUARANTY AND SAFETY

We as Iraq Altaqa Company guaranty the quality of Bitumen PMB 50/90-55. To ensure this, an independent international inspection agency is arranged to verify both the quality and quantity of the Bitumen during vessel loading. Additionally, production is closely monitored by the Quality Control (QC) team through batch testing prior to shipment.

APPLICATIONS

PMB 50/90-55 is ideal for the use in highways, urban roads, roundabouts, airport runways, bridges, and industrial zones where high traffic loads, extreme temperatures, and resistance to rutting and cracking are critical factors. It is also suitable for overlays and pavement rehabilitation in demanding environments.

PACKAGING

Our bitumen is available in a range of packaging options, including:

Jumbo bags	Flexitanks	Steel drums
 1 MT	 20 MT	 150kg 180kg 220kg

All packaging is weatherproof and engineered for safe, efficient handling and transportation in diverse operating environments.



Complies with
IS 15462:2019