

RAJESHREE TAR INDUSTRIES

MANUFACTURER OF BITUMEN EMULSION AND MODIFIED BITUMEN





Polymer Modified Bitumen:



RTI Polymer Modified Bitumen is designed to maximum resistance to permanent deformation and reduce fatigue of asphalt mixtures that are used in the most demanding locations.

The careful selection of additives greatly enhances binder performance, improving elasticity, reducing temperature susceptibility and improving adhesion. Pavements based on RTI Modified Bitumen have been shown to have a longer life with a batter resistance to:

- Rutting
- Cracking
- Stripping
- Ageing
- Thermal Cracking

The careful selection of additives greatly enhance binder performance, improving elasticity, reducing temperature susceptibility and improving adhesion. Our product range is particularly suited to heavy traffic locations such as highways, main roads, airfields, roundabouts and bus lanes. Typically we've developed products for a combination of the following needs:

- Superior Elastic Modulus of RTI PMB helps control deformation under high pavements Temperature and heavy loading conditions.
- Increases the fatigue life of pavement under repeated heavy loading conditions.
- Helps in reduction of maintenance cost and is more cost and is more cost effective on a life cycle cost basis.
- For use in thin surfacing and stone mastics asphalt (SMA) mixes;
- For use in drainage (porous) asphalt applications;
- For asphalt mixtures designed for high resistance to permanent deformation and high flexibility.

RTI PMB

RTI PMB is a highly specialized blend of Bitumen with high quality polymer (Elastomeric) and is manufactured under carefully controlled conditions in a "State of Art" plant. RTI PMB is an exceptionally versatile product with enhanced properties that makes it suited for wearing course application under special conditions like high rainfall and high traffic. RTI PMB is strictly manufactured as per IRC: SP: 53: 2002 and IS 15462:2019.

RTI PMB 40 : Recommended for Hot climatic areas
RTI PMB 70 : Recommended for moderate climatic areas
RTI PMB 120 : Recommended for cold climatic areas

TYPICAL PROPERTIES:

No	PROPERTIES	RTI PMB 40	RTI PMB 70	RTI PMB 120
1	Penetration at 25 °C, 0.1 mm Max	30-50	50-90	90-150
2	Softening Point, °C min	60	55	50
3	Elastic Recovery of half thread in	75	75	75
	Ductilometer at 15 °C, % min			
4	Flash Point, °C, min	220	220	220
5	Separation Difference in Softening Point, °C max	3	3	3







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6	Tests on Residue			
	- Penetration of residue at 25 $^{\circ}\text{C}$	35	35	35
	% min			
	- Increase in softening point, °C max	5	6	7
	- Elastic Recovery of half thread in	50	50	50
	Ductilometer at 25 °C of residue,			
	% min			
7	Ductility at 27 °C, cm	+50	+60	+75
8	Viscosity at 150 °C, poise	3-9	2-6	1-3

ADVANTAGES:

- Lower susceptibility to daily and seasonal temperature various
- Prevents Rutting
- High resistance to deformation at elevated pavement temperature
- High skid resistance
- Better adhesion between aggregates and binder ensures longer life, strength and stability
- Better water resistance
- Better edge resistance properties

Application:

RTI PMB is ideal product for wearing courses on

- Heavy trafficked lane
- Slopes, roundabouts, junctions
- Industrial and multimodal, junctions
- Airport Runways
- Parking places
- Bridges and flyovers
- High rainfall regions

To Ensure Best Results:

Recommended temperature for application

No	Process	Temperature Range
1	Mixing with Aggregates	170 - 185 °C
2	Laying	150 - 170 °C
3	Compaction	Over 140 °C
4	End of Compaction	110 - 120 °C

Availability:

RTI PMB is available in Bulk

Survey No 397-1/2, Gohilpura Village-Nandesari, Vadodara-391340 M.: -+919725040804 Email Id: rajeshreetarind@gmail.com