LIQUIBIT[®] - PMB

MODIFIED BITUMEN WITH THERMOPLASTIC AND ELASTOMERIC POLYMERS

IWL

PRODUCT DESCRIPTION

Liquibit PMB is IWL's specially modified bitumen produced with carefully chosen elastomeric and plastomeric thermoplastic polymers to improve the rheology of our bitumens and serve the ever growing demands of the transportation industry. Liquibit PMB is manufactured strictly according to IS 15462 (2004 & 2019).

USES

- Bridges, Flyovers, national and state highways, etc.
- Car Parks, Junctions, Roundabouts
- Race tracks, Airport Runways and heavy traffic lanes

ADVANTAGES

- Can be used as a Stress Absorbing Membrane Interface
- Improved Resistance to Cracking and deformations
- High resistance to rutting and low temperature cracking
- High Cohesive strength and Elasticity
- Increased fuel resistance
- Enhanced Life duration of pavements



APPLICATION GUIDELINES

Recommended Application Temperatures:

- Hot Mix Aggregate: 165 185°C
- Paving of the Mix: 150 170°C
- Mix Compaction: >140°C
- Final Compaction: 110 120°C

GRADES OF LIQUIBIT PMB

- Liquibit PMB-40
- Liquibit PMB-70
- Liquibit PMB-120
- Liquibit PMB 64-10
- Liquibit PMB 70-10
- Liquibit PMB 76-10
- Liquibit PMB 82-10
- Liquibit PMB 76-22

PACKAGING

200 kg barrel or Bulk

SAFETY PRECAUTIONS

Wear all necessary goggles, gloves, shoes, etc while handling PMB. In case of any contact with the skin or eyes, seek medical attention immediately.



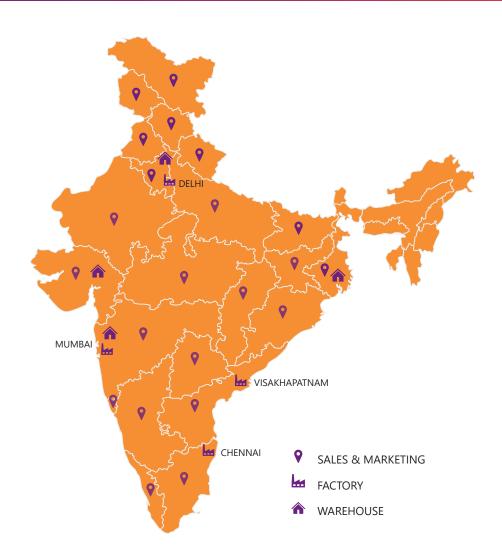
TECHNICAL SPECIFICATIONS

Prop	erties	Test Method	PMB 64-10	PMB 70-10	PMB 76-10	PMB 82-10	PMB 76-22	PMB 40	PMB 70	РМВ 120
Softening Point (R and B), °C, Min		IS 1205	60	65	70	80	75	60	55	50
Penetration at 25°C, 0.1 mm, 100g, 5 s		IS 1203	-	-	-	-	-	30 - 50	50 - 90	90 - 150
Flash point, COC, °C, Min		IS 1209	230	230	230	230	230	220	220	220
Elastic recovery of half thread in ductilometer at 15°C, percent, Min		IS 15462	70	70	70	85	80	60	60	50
FRAASS breaking point, °C, Max		IS 9381	-10	-10	-10	-10	-22	-12	-16	-20
Complex Modulus (G*/sin $\overline{\mathbf{\delta}}$) as Min 1.0 kPa at 10 rad/s, at a temperature, °C		IS 15462	64	70	76	82	76	-	-	-
Separation, difference in softening point (R&B), °C, Max		IS 15462	3	3	3	3	3	3	3	3
Viscosity at 150°C, Pa.s, Max		ASTM D 4402	1.2	1.2	1.2	1.6	1.5	-	-	-
Viscosity at 150°C, Poise		IS 1206 (Part 2)	-	-	-	-	-	3-9	2-6	1-3
	o be carried out on Rolling Thin Film (RTFO) Residue:									
• I	oss in mass, percent, Max	IS 9382	1	1	1	1	1	1	1	1
ľ	Complex Modulus (G*/sin δ) as ⁄Iin 2.2 kPa at 10 rad/s, at a emperature, °C	IS 15462	64	70	76	82	76	-	-	-
	Elastic recovery of half thread in ductilometer at 25°C, percent, Min	IS 15462	-	-	-	-	-	50	50	50
• 1	ncrease in softening point, °C, Max	IS 1205	-	-	-	-	-	5	6	7
	Reduction in penetration of residue, at 25°C, percent, Min	IS 1203	-	-	-	-	-	35	35	35
- 1	MSCR Test									
a.	Standard Traffic (S) J _{nr32} , Max 4.5 kPa ⁻¹ J _{nrdiff} , Max 75 percent Test Temperature, °C	IS 15462	64	70	76	82	76	-	-	-
b.	Heavy Traffic (H) J _{nr32} , Max 2 kPa ⁻¹ J _{ndiff} , Max 75 percent Test Temperature, °C	IS 15462	64	70	76	82	76	-	-	-
C.	Very Heavy Traffic (V) J _{nr32} , Max 1 kPa ⁻¹ J _{nrdiff} , Max 75 percent Test Temperature, °C	IS 15462	64	70	76	82	76	-	-	-
d.	Extremely Heavy Traffic (E) J _{nr32} , Max 0.5 kPa ⁻¹ J _{nrdiff} , Max 75 percent Test Temperature, °C	IS 15462	64	70	76	82	76	-	-	-

WHO WE ARE

Founded in 1988, IWL India Private Limited is a well established manufacturing industry with multiple manufacturing facilities, warehouses and sales teams across India. This facilitates timely supply of high quality materials for the civil, road construction and pipeline industries. IWL also exports its products to several international customers. In addition, IWL's well equipped R&D facilities can tailor make products to cater to specific needs of critical projects such as Metros, Nuclear Power Plants, Airports, Pipelines, etc. We are proud to contribute to the development of India's infrastructure and participate in its journey to becoming a developed country.

OUR LOCATIONS



IWL INDIA PRIVATE LIMITED

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