



ZÜMRÜT INTERNATIONAL KİMYA SAN. VE TİC.LTD

Polymer Modified Bitumen Technical Datasheet

Designation	PMB 40	PMB 70	PMB 120	Test Method
Penetration at 25°C, 1/10mm, 100g, 5 sec	30-50	50-90	90-150	ASTM D5
Softening Point, (R&B), °C, Min	60	55	50	ASTM D36
Elastic Recovery at 15°C, %, Min	60	60	60	ASTM D6084
Flash point, COC, °C, Min	220	220	220	ASTM D92
Separation, Difference in Softening Point, (R&B), °C, Max	3	3	3	–
Thin Film Oven Test & Test on Residue				
Loss in Mass, %, Max	1	1	1	ASTM D1754
Reduction in Penetration of residue at 25°C, 100g, 5s, %, Max	35	35	35	ASTM D5
Increase in Softening Point, °C, Max	5	6	7	ASTM D36
Elastic Recovery at 25°C, %, Min	50	50	50	ASTM D6085

applications of PMB

- **Asphalt Mixtures:** PMB is used as a binder in asphalt mixtures for road pavements, highways, airports, and other heavy-duty surfaces. It improves the durability, flexibility, and resistance to rutting and cracking of asphalt concrete.
- **Surface Treatments:** PMB can be applied as surface treatments, such as slurry seals and micro surfacing, to rejuvenate and protect existing pavements. It enhances the durability and skid resistance of road surfaces, extending their service life.
- **Pavement Rehabilitation:** PMB is used in pavement rehabilitation projects to upgrade existing road surfaces, repair cracks, and prevent reflective cracking. It helps to strengthen the pavement structure and improve its resistance to fatigue and distress.
- **Waterproofing Membranes:** PMB is utilized in waterproofing membranes for infrastructure projects such as bridges, tunnels, and parking decks. It provides excellent adhesion and waterproofing properties, protecting structures from moisture damage and extending their lifespan.
- **Crack Sealants:** PMB-based crack sealants are used to repair and seal cracks in asphalt pavements, preventing water infiltration and further deterioration. They help to maintain the integrity of the pavement and prevent the formation of potholes.



Karşıyaka mahallesi, 749 sokak, No 30,
Gölbaşı/Ankara/Türkiye



www.zumrut-int.com



+90 555 160 57 39
+90 312 544 45 81



Info@zumrut-int.com