

# POLYMER-MODIFIED BITUMEN FOR ROADS POLIBIM (PmB)



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## POLYMER-MODIFIED BITUMEN FOR ROADS

CE  
EN 14023



### DESCRIPTION, TYPES AND CHARACTERISTICS

#### What is PmB ?

Polymer-modified bitumen (PmB) is bitumen enhanced with polymers (SBS), which is used for producing asphalt mixtures for the wearing course or base layers in road structures with high traffic loads (highways, airport runways, urban roads, etc.).

#### BIM ad Sveti Nikole produces PmB under the name POLIBIM.

#### Types:

**POLIBIM  
25/55-55;**

**POLIBIM  
25/55-60;**

**POLIBIM  
45/80-55;**

**POLIBIM  
45/80-60;**

**POLIBIM  
45/80-65**

**1998** year

The first trial has been completed and the first **PmB** has been produced at **BIM ad Sveti Nikole**, as the first manufacturer in the Balkans.

**2000** year

The first major project where the **POLIBIM** produced by BIM ad Sveti Nikole was used is the Tetovo-Skopje highway.

**2022** year

Investment in a PMB plant to increase the existing production capacity of **POLIBIM**.



Technical characteristics	Method	Unit	POLIBIM 25/55-55	POLIBIM 25/55-60	POLIBIM 45/80-55	POLIBIM 45/80-60	POLIBIM 45/80-65
			Declared value				
Penetration at 25°C	EN 1426	1/10mm	25-55 class 3		45-80 class 4		
Softening point by R&B	EN 1427	°C	≥55 class 7	≥60 class 6	≥55 class 7	≥60 class 6	≥65 class 5
Breaking point by Fraass	EN 12593	°C	≤-10 class 5		≤-12 class 6	≤-15 class 7	≤-18 class 8
Flash point	EN ISO 2592	°C	≥235 class 3		≥235 class 3	≥235 class 3	≥250 class 2
Elastic recovery at 25°C	EN 13398	%	≥60 class 4		≥60 class 4	≥70 class 3	≥80 class 2

#### INTENDED USE

**POLIBIM** is used in the production of asphalt mixtures intended for the construction of wearing and base layers in:

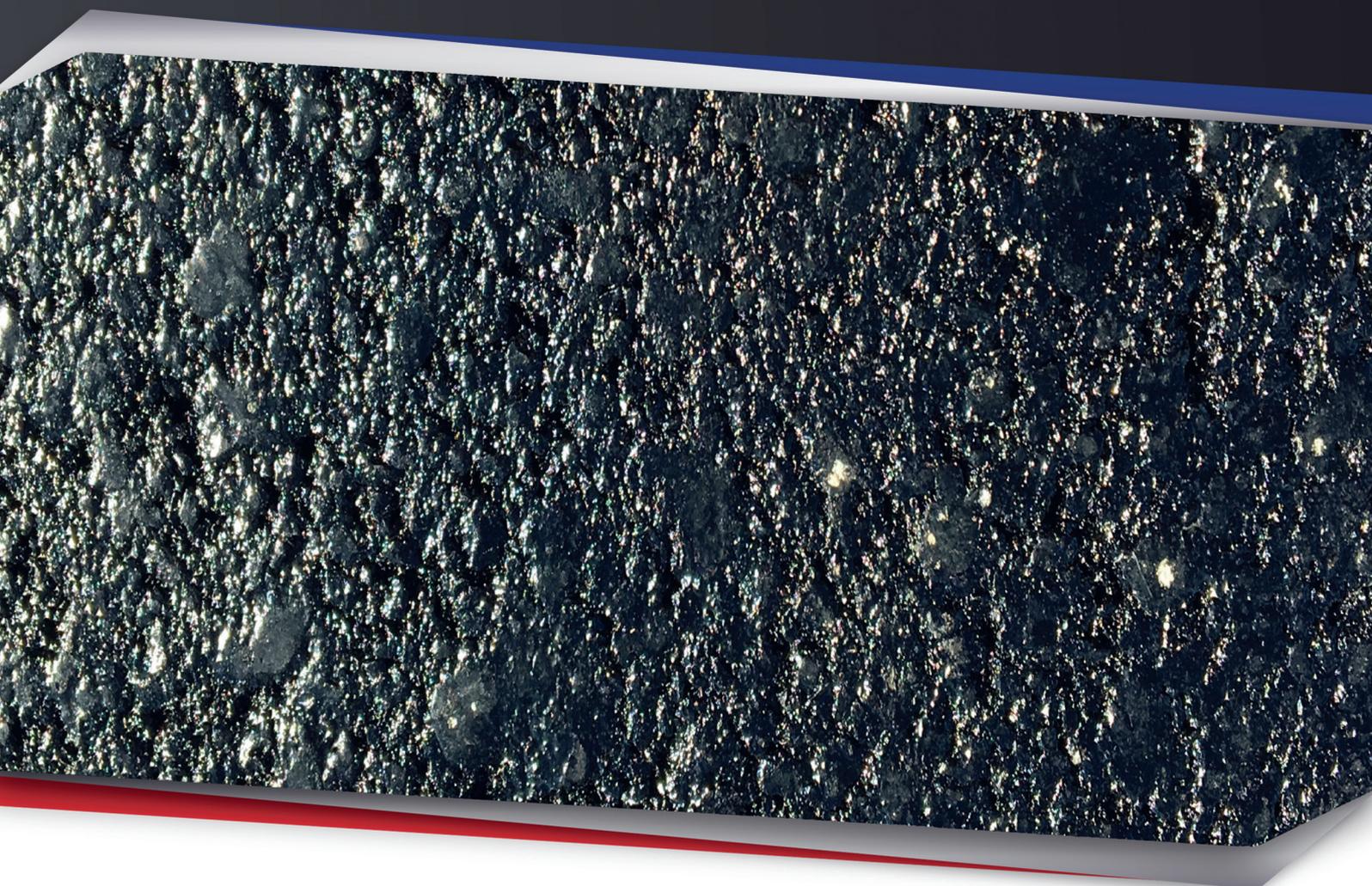
- **Highways and roads with very heavy traffic loads**
- **Urban roads with intensive traffic, including bus stops, intersections, etc.**
- **Airports and airport runways**
- **Surface asphalt-concrete layers on bridges, etc.**

The application of **POLIBIM** is performed in accordance with the paving contractor's technology and procedures.

Storage and transport are performed in heated tank trucks, maintaining the product in a hot state.

Asphalt mixtures produce with **POLIBIM**, where SBS (styrene-butadiene-styrene) is used as a modifier, are characterized by:

- ✓ **Excellent elasticity**
- ✓ **Resistance to both low and high temperatures**
- ✓ **High resistance to plastic deformations and cracking**
- ✓ **Increased fatigue and aging resistance**
- ✓ **Extended service life and greater cost-efficiency**



FACTORY FOR PRODUCTION OF  
BITUMEN WATERPROOFING MATERIALS

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