

**BITUMEN
PENETRATION GRADE 50/70
Technical Data Sheet**

1. Description

Bitumen 50/70 is a high quality bitumen produced through the most modern industrial processes and appropriate crude oils. It has an optimum viscosity in the range of temperatures for mixing and laying operations, that guarantees an easy workability even for high stress conditions.

The product meets the European standard EN 12591 and achieves the maximum level of hardening resistance.

2. Uses

Bitumen 50/70, thanks to its very high performance in terms of resistance to aging, plasticity and behaviour at low temperatures, is employed to produce bituminous mixes constituting flexible structure for the paving of roadways, runways, pavement, track race and landing platform.

3. Specification

NO	Properties	Unit	Range		Method
			Min	Max	
1	Penetration @ 25° C	1/10mm	50	70	EN 1426
2	Softening point, Ring&Ball	° C	46	54	EN 1427
3	Penetration Index	-	-1.5	0.7	EN 12591
4	Fraass Breaking Point	° C	-	-5	EN 12593
5	Specific Gravity _{25/25° C}	-	1.00	1.10	EN ISO 3838
6	Flash Point COC	° C	250	-	EN ISO 2592
7	Dynamic Viscosity at 60° C	Pas	145	-	EN 12596 EN 13702
8	Dynamic Viscosity at 135° C	mPa·s	295	-	EN 13702
9	Solubility in Organic Solvents	%(m/m)	99.0	-	EN 12592
10	Resistance to hardening RTFOT:	-	-	-	EN 12607-1
11	Increase in softening point	° C	-	9	EN 1427
12	Retained penetration at 25° C	%	50		EN 1426
13	Change in mass (absolute value)	%		0.5	

4. Safe Handling and Storage:

- Approximate temperatures:
- Storage 160-170°C;
- Mixing 160-180°C;
- Compaction 150-170°C.
- The recommended maximum handling & storage temperature is 200°C.

5. Drums:

Keep drums in a cool, well-ventilated place.

6. Packaging:

Penetration graded Bitumen 50/70 is available in 180kg net weight drums, 0.6mm thickness, 95cm height and 45cm diameter (+/- 3kg operational tolerance)