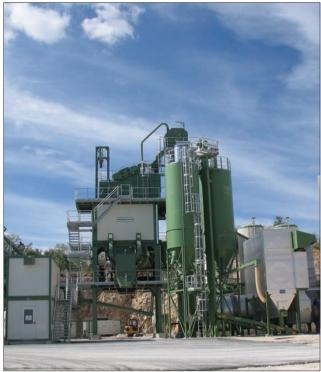


## PENETRATION GRADE BITUMENS

Penetration Grade Bitumens are the standard binders used in the manufacture of asphalt & macadam.





| Penetration Grade | Typical Use  |
|-------------------|--|
| 30-45             | High Modulus Base Courses / Mastic Asphalt   |
| 40-60             | Hot Rolled Asphalt / Dense Base Course Macadam<br>Heavy Duty Macadam / Pre-coated Chipping<br>Join Sealant |
| 70-100            | Macadam / Asphalt Concrete Polymer Binder Bases  |
| 100-150           | Dense Base Course Macadam Polymer Binder Bases   |
| 160-220           | Macadam / Emulsions / Polymer Binder Bases   |



## PENETRATION GRADE BITUMENS

## **SPECIFICATION**

Penetration Grade Bitumens comply with the requirements of I.S. EN12591: 2009.

| Property                               | Grade Designation |        |         |         |          |  |
|--|-------------------|--------|---------|---------|----------|--|
|  | 30/45             | 40/60* | 70/100* | 100/150 | 160/220* |  |
| Penetration<br>@ 25 C°                 | 30 - 45           | 40-60  | 70-100  | 100-150 | 160-220  |  |
| Softening Point (C)°                   | 52 - 60           | 48-56  | 43-51   | 39-47   | 35-43    |  |
| Solubility<br>min (%)                  | 99.0              | 99.0   | 99.0    | 99.0    | 99.0     |  |
| Resistance to Hardening,<br>@ 163 C°:  |                   |        |         |         |          |  |
| Change of mass,<br>max %               | 0.5               | 0.5    | 0.8     | 0.8     | 1.0      |  |
| Retained penetration,<br>min %         | 53                | 50     | 46      | 43      | 37       |  |
| Softening point after hardening, min % | 54                | 49     | 45      | 41      | 37       |  |
| Flash Point, min C°                    | 240               | 230    | 230     | 230     | 220      |  |

<sup>\*</sup> These Grades comply with the NRA Binder Specification RC 380/13 Table 2.

## **Recommended Temperature:**

Recommended Storage Temperature 160°C The storage temperature should not exceed 200°C



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