



## Paving Bitumen EM Series

ExxonMobil Asphalt, Netherlands

PENETRATION GRADED BITUMEN PRODUCTS - NETHERLAND

### Product Description

Paving Bitumen EM are penetration graded bitumen products derived from specially selected crude oils via carefully controlled refining processes.

The quality of ExxonMobil products is assured for every delivery. They are produced and controlled according to the ExxonMobil Global Product Integrity Management System, EN ISO 9000 or equivalent standard.

### Applications

Paving Bitumen EM grades are recommended for road construction. If other applications are considered, then users should conduct appropriate testing before use.

### Properties & Specifications

Paving Bitumen EM grades meet both the NEN EN 12591:2009 specifications requirements:

| Paving Bitumen grades              |                    |             | 35/50 EM | 40/60 EM | 50/70 EM | 70/100 EM | 100/150 EM | 160/220 EM |
|------------------------------------|--------------------|-------------|----------|----------|----------|-----------|------------|------------|
| Property                           | Unit               | Test Method |          |          |          |           |            |            |
| Penetration at 25°C                | x 0.1 mm           | EN 1426     | 35-50    | 40-60    | 50-70    | 70-100    | 100-150    | 160-220    |
| Softening point                    | °C                 | EN 1427     | 50-58    | 48-56    | 46-54    | 43-51     | 39-47      | 35-43      |
| Flash point (min)                  | °C                 | ISO 2592    | 240      | 230      | 230      | 230       | 230        | 220        |
| Solubility in toluene (min)        | % (m/m)            | EN 12592    | 99.0     | 99.0     | 99.0     | 99.0      | 99.0       | 99.0       |
| Kinematic viscosity at 135°C (min) | mm <sup>2</sup> /s | EN 12595    | 370      | 325      | 295      | 230       | 175        | 135        |
| Fraass breaking point (max)        | °C                 | EN 12593    | -5       | -7       | -8       | -10       | -12        | -15        |

#### Resistance to hardening: Rolling Thin Film Oven Tests at 163 °C (EN 12607-1)

| Change of mass (max) +/-                       | %  | EN 12607-1 | 0.5 | 0.5 | 0.5 | 0.8 | 0.8 | 1.0 |
|------------------------------------------------|----|------------|-----|-----|-----|-----|-----|-----|
| Retained penetration (min)                     | %  | EN 1426    | 53  | 50  | 50  | 46  | 43  | 37  |
| Increase in softening point - Severity 1 (max) | °C | EN 1427    | 8   | 9   | 9   | 9   | 10  | 11  |

Both the NEN EN 12591 specifications may be subject to change.

Paving Bitumen EM grades delivered in Netherlands meet only the Dutch NEN EN 12591 specifications.

### Health & Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.as>

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### Further Information

ExxonMobil supplies a full range of bitumen, waxes, white oils, process oils and a full range of other lubricants, fuels and chemical products worldwide. Please contact your local ExxonMobil representative, or contact us at [www.exxonmobil.com](http://www.exxonmobil.com) for more information on other products.

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