

OLEXOBIT[®] AOG



Polymer Modified Binder

Asphalt Applications

Description

OLEXOBIT[®] AOG is a polymer modified binder (PMB) that is designed for use in open-graded and thin-surfacing asphalt applications to provide increased cohesive strength, durability and resistance to abrasion.

Application

OLEXOBIT[®] AOG is recommended for use in open-graded asphalt:

- At all pavement temperatures and where traffic loadings are either
 - less than 1000 HV/lane/day and generally moving at a speed > 25km/h, or
 - less than 500 HV/lane/day and generally moving at a speed < 25km/h
- At pavement temperatures less than 52°C under all of traffic loading conditions

For further advice on the appropriate application of OLEXOBIT[®] AOG, please contact BP Bitumen.



Key Benefits

Performance Benefits

- Improved cohesive strength over conventional bitumen
- Enhanced durability
- Excellent fatigue resistance
- Reduced binder drainage in open-graded asphalt
- Thick cohesive binder film to reduce oxidative effects

Application Benefits

- Easy and safe to handle
- Excellent storage and travel stability
- Low-fuming compared to SBS PMBs – no more fumes than conventional bitumen

Specification

OLEXOBIT[®] AOG is manufactured to comply with Austroads AP-T41 A25E grade.

Typical Characteristics

Property	Typical Value
Softening Point, °C	55
Torsional Recovery at 25°C, %	23
Viscosity at 165°C, Pa.s	0.5
Consistency at 60°C, Pa.s	740
Consistency at 45°C, Pa.s	7,400
Stiffness at 15°C, kPa	33
Segregation, %	0.5

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Storage & Handling

The storage of bituminous binders for prolonged periods at elevated temperatures should be avoided as quality may be adversely affected. As a general rule, bituminous binders should be stored at the lowest temperature that enables practical use.

Maximum Storage Temperature Recommendations

Storage for up to 90 days	120°C
Storage for up to 7 days	160°C
Storage for up to 4 days	170°C
Storage for up to 24 hours	180°C
Maximum temperature	190°C

Application Temperature Recommendations

Minimum pumping temperature	150°C
Asphalt mixing	145°C - 155°C
Asphalt compaction	135°C - 145°C

Health & Safety

To ensure hot bitumen is used in a safe and efficient manner the following safety precautions must be followed:

- **Wear suitable personal protective equipment (PPE) at all times.** Full skin protection is required to avoid accidental burns when transferring or handling hot bitumen.
- **Always prevent contact between water and hot bitumen** by checking the contents of the previous load before loading bituminous products into tankers and by following procedures to avoid violent boil-over of tanks.
- **Avoid exposure to fumes** by standing back on the gantry or upwind until the vapours have dispersed.
- **Minimise bitumen fume** by heating bitumen and asphalt products to the recommended temperatures.
- **Minimise the use of diesel** when cleaning equipment as this contributes to the bitumen fume.

For a full description of hazards associated with the use of bituminous binders, please refer to the appropriate material safety data sheet (MSDS) available on the BP Bitumen website.

Quality Assurance

BP Bitumen is recognised nationally for its proven track record in delivering products of consistently high quality. Every day our products perform under the most diverse and demanding road conditions in Australia. This is attributable to a combination of our unique product technology, comprehensive quality assurance programs, operational efficiency and sophisticated production processes – all supported by our highly skilled and experienced staff.

We maintain an in-house national technical centre in Melbourne which focuses on R&D, as well as providing technical expertise and support to our customers throughout Australia. Our team of technical specialists is dedicated to ensuring our products are thoroughly tested at every stage – from the selection of crude oil at the start of the production process, right through to delivery.

Our product stewardship and rigorous quality management practices reflect our commitment to delivering the highest quality products that perform on the road. Our commitment to quality is recognised by our accreditation to Australian Standard AS/NZS 9001.

For further information, please contact us:

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