

# OLEXOBIT® SAM

## Polymer Modified Binder

Sprayed Seal Applications

### Description

OLEXOBIT® SAM is a polymer modified binder (PMB) that is designed for use in sprayed sealing applications to achieve excellent long-term aggregate retention where the seal is exposed to high traffic-induced stress. It is also used to improve the resistance of reflective cracking with slow to medium rate of movement and as a holding treatment on low traffic roads.

### Application

OLEXOBIT® SAM is recommended for use where typical field conditions include:

- Heavy traffic loading (> 500 HV/lane/day)
- Steep grades (> 5%)
- Tight curves (< 50m radius)
- Intersections, T-junctions and heavy traffic entrances involving severe degrees of braking, acceleration or turning motions
- Cracks with widths of > 2mm and slow rate of crack movement

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



### Key Benefits

#### Performance Benefits

- Superior early life adhesion
- Excellent long-term aggregate retention
- Improved resistance to reflective cracking

#### Application Benefits

- Can be successfully applied over a range of weather conditions, including temperatures considered too low for alternative modified binder solutions
- Less loose stone during construction reduces the need to broom
- Lower application rates than alternative PMBs
- Easy and safe to handle
- Low fuming compared to SBS PMBs – no more fumes than conventional Class 170
- Compatible with conventional spray equipment and cutters
- Excellent storage and travel stability

### Specification

OLEXOBIT® SAM is manufactured to comply with Austroads AP-T41 S35E grade.

### Typical Characteristics

Property	Typical Value
Softening Point, °C	50
Torsional Recovery at 25°C, %	19
Viscosity at 165°C, Pa.s	0.2
Consistency at 60°C, Pa.s	350
Consistency at 45°C, Pa.s	3,500
Stiffness at 15°C, kPa	160
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
Temperature for spraying	180°C - 190°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:

**Web** [www.bpbitumen.com.au](http://www.bpbitumen.com.au)  
**E-mail** [bpbitumenaustralia@bp.com](mailto:bpbitumenaustralia@bp.com)  
**Technical Helpline** 1800 24 88 66 (FREECALL)

**National Office** 55 Toll Drive, Altona North, VIC 3025  
**Telephone** (03) 8368 8700  
**Facsimile** (03) 8368 8701

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