

# BITUMATE™

## COMPOSITION

BITUMATE™ is a nominal 20 mm graded pavement material manufactured from reclaimed asphalt. Source material is asphalt removed from road pavements and car parks by stripping, cold planing or excavation. Minimal amounts of base, sub-base or other materials may be included in the product.

The high quality aggregates and residual bitumen binder used in making the source product, provide a basis for the high performance characteristics measured in the laboratory and field. BITUMATE™ is a quality graded product, enabling excellent workability and compaction rates.



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## QUALITY ASSURANCE

BITUMATE™ is manufactured and supplied under strict quality control in accordance with our Quality Assurance System.

It is produced on demand to a nominated specification and tested for compliance by an external NATA accredited laboratory.

## APPLICATIONS

- unsealed rural roads
- road shoulder construction and repair
- hard stand areas
- footpaths, fire tracks and walking trails
- light duty car parks
- driveways.

## CONSTRUCTION METHOD

BITUMATE™ is supplied wet-mixed to Optimum Moisture Content (OMC) and laid using traditional methods much like any other quarried pavement material. The minimum recommended pavement thickness is 50 mm. Proper compaction and rolling will provide a hard, durable and smooth surface.

## BENEFITS OF USING BITUMATE™

The physical properties of BITUMATE™ allow it to perform differently than traditional quarried pavement materials. The residual bitumen binder that is retained during the manufacturing process improves the mechanical interlocking and binding of each particle within the pavement. Benefits include:

- reduced dust generation through traffic and normal wear and tear
- increases the life expectancy of pavements
- decreases maintenance cycles and associated costs
- reuses reclaimed asphalt thereby reducing disposal to landfill.



**PRODUCT SPECIFICATION**

TEST	TEST PROCEDURE	GRADING BASED SPECIFICATION LIMITS	
		Sieve Size mm	Per cent Finer
Particle Size Distribution	TSA – MAT-TP141	26.5	100
		19.0	90 - 100
		13.2	74 - 96
		9.5	61 - 85
		4.75	42 - 66
		2.36	28 - 50
		0.425	11 - 27
		0.075	4 - 14
Liquid Limit	AS 1289 3.2.2	Max 28%	
Plasticity Index	AS 1289 3.3.1	Min 1% Max 8%	
Linear Shrinkage	AS 1289 3.4.1	Max 4%	
LA Abrasion Grading B	AS 1141 .23	Max 45%	
Foreign Materials Type 2 (Plaster, clay, friable material)	RMS T276	Max 1%	
Foreign Materials Type 3 (Plastic, rubber, wood)	RMS T276	Max 0.5%	
Bitumen Content	TSA – MAT – TP470	Max 4%	
Typical Density (MDD)		is 2.15t/m <sup>3</sup>	
Typical Optimum Moisture Content (OMC)		6.0%	