



USED FOR



Waterproofing

ENVIRONMENTS



Rural



Residential



Standard Bitumen

Asphalt Application Hot-mixed binder for asphalt production

Standard Bitumen is a hot mixed binder for asphalt production, delivering reliable and consistent performance in dense-graded mixes.

Blended to the desired M1 and M01-A specification binder, it provides effective coating, adhesion, and durability within a wide range of asphalt mix designs.

Used for conventional asphalt paving operations, this binder ensures dependable performance under typical traffic loading and climatic conditions. It is suitable for use in a variety of asphalt applications where a high-performance binder is not required.

Treatment areas ideal for Standard Bitumen

- Dense asphalt mixes
- Residential and rural road applications

Benefits

- Consistent quality – Manufactured to meet industry specifications for reliable performance
- Easy to lay + compact

Specification

Typical properties of Standard Bitumen

Property	Method	Specification
PG Grade	AASHTO T350	All traffic categories for PG52, PG58, PG64

Properties



Handling

For safe handling of bituminous materials, please refer to the [Road Science standard bitumen safety data sheet](#), the below table, and the [Best practice guideline: Safe Handling of bituminous materials used for roading \(BPG01\)](#)

Standard Bitumen	
Normal safe handling temperature	140°C - 180°C
Maximum safe handling temperature	185°C
Normal pumping temperature	140°C - 180°C

For mixing and compaction temperature guidance, refer to [Road Science asphalt binder mixing and compaction temperatures](#) document.

Circulation

Standard bitumen should be circulated for at least one hour prior to commencing asphalt mixing

Heating

Under no circumstances should you exceed the 320°C on the flame tube surface.

Storage

Standard Bitumen	
Short term storage temperature (up to 2 days)	140°C - 185°C
Medium term storage temperature (3 to 5 days)	140°C - 160°C
Long term storage temperature (beyond 5 days)	140°C max

Equipment

Conventional asphalt plant.

Treatment Selection + Mix Design

If you're unsure which treatment solution is best suited for your project - considering factors such as traffic volumes and asset management - consult a member of the Road Science product development team. They can assist in determining the appropriate treatment selection and guide you through the mix design process.

Sampling

Samples should be taken following transfer from storage or transport. PPE as defined in the Safety Data Sheet should be worn when sampling Standard Bitumen, including face shield as the product is transferred at elevated temperatures and splashes are always a risk.

Testing should only be carried out by an IANZ registered laboratory that is experienced in handling and testing bitumen emulsions. For managing bitumen quality, please refer to the Waka Kotahi NZ Transport Agency Q05 specification for managing bitumen quality report.

Need more information?

At Road Science, we're committed to providing innovative solutions backed by engineering expertise. If you have any questions about this product, need technical guidance, or want to discuss how it fits your specific project needs, our team is here to help. Contact us today for expert advice and tailored support. Contact us via **0800 180 200** or visit our website at roadscience.co.nz to learn more.

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