



#### USED FOR



Waterproofing

#### ENVIRONMENTS



Rural



Residential

# Standard Bitumen

## Sealing Application Hot-applied bitumen binder for chip sealing

Standard bitumen is a hot-applied bitumen binder, specifically designed for chip sealing applications requiring reliable and consistent performance. It is manufactured using 130/150 and 180/200 grade bitumen and can be blended with cutter to the desired parts per hundred (PPH) as requested by the client.

Engineered for conventional road sealing operations, this binder delivers dependable performance under typical traffic and climatic conditions. It is suitable for use in a variety of chip sealing techniques where polymer modification is not required.

### Where to use Standard Bitumen

- All standard chip sealing techniques under normal service conditions
- Low stress roads
- Suitable for common sealing applications including: Two coat seals, racked-in seals, single coat seals, sandwich seals, and first coat seals

### Benefits

- Ready-to-use – Delivered at a temperature of approximately 180°C for efficient handling and application
- Consistent quality – Manufactured to meet industry specifications for reliable performance
- Versatile – Suitable for a wide range of chip sealing applications

## Specification

Typical properties of Standard Bitumen

Property	Method	Specification
Penetration grade	ASTM D5	130 / 150
Penetration grade	ASTM D5	180 / 200

## Properties



## Handling

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

Standard Bitumen	
Maximum safe handling temperature	185°C
Pumping binder temperature	> 150°C
Normal spray temperature	150°C - 180°C

## Circulation

Standard bitumen should be circulated for at least ten (10) minutes prior to commencing spraying.

## 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)	150°C - 185°C
Medium term storage temperature (3 to 5 days)	150°C - 160°C
Long term storage temperature (beyond 5 days)	150°C

## Application

Refer to the seal design application rates for the specified job.

## Equipment

Conventional bitumen sprayer.

## 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](http://roadscience.co.nz) to learn more.

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