



# Flexi Seal

Helps to resolve these problems:



## Flexi Seal Polymer Modified Bitumen for use as a superior chipsealing binder

Flexi Seal is a hot applied polymer modified chipsealing bitumen for use in all chipsealing applications where a high level of performance is required.

Flexi Seal uses 130/150 grade bitumen as the base binder.

The presence of polymer greatly enhances the performance of the binder, making it suitable in all chipsealing techniques.

### Where to use Flexi Seal:

A bituminous binder for all chipsealing techniques, especially in areas of extreme climatic conditions.

Where there is evidence of cracking in the original surface or on pavements which exhibit high deflections.

Flexi Seal is delivered at an application temperature of 180°C in ready to use form.

## Benefits:

Flexi Seal can be produced in polymer contents ranging from 2-4% polymer

Flexi Seal can be used for all sealing techniques including; two coat seals, rack-in seals, single coat seals, sandwich seals and first coat seals.

## Habitat



Residential



Rural

## Specification

Typical properties of Flexi Seal Polymer Modified Bitumen

Property	Method	Specification
Softening Point (°C) of cured binder	ASTM D36-2006	> 40
Torsional Recovery (%)	AGPT/T154	>10%

## Health & Safety

Flexi Seal Polymer Modified Bitumen is handled at elevated temperatures (~180°C) and all precautions should be taken to prevent burns. Full personal protective equipment must be used at all times when pumping, transferring or sampling PME. Burns should be treated in the same way as hot bitumen burns. The Roding NZ Bitumen Burns card should be consulted and the instructions followed. e.g. cooling water should be immediately applied but no attempt should be made to remove bitumen from the burn area.

Any contact on the skin (other than burns) should be washed off immediately with appropriate hand cleaners, do not use solvents.

A safety data sheet for Flexi Seal is freely available on the Road Science website and must be read and understood prior to handling the Flexi Seal Polymer Modified Bitumen binder.



## Handling & Mixing Information

Flexi Seal Polymer Modified Bitumen	
Maximum safe handling temperature	200°C
<i>The Flexi Seal Polymer Modified Bitumen should be circulated for at least 10 min prior to commencing spraying.</i>	
Normal Spray Temperature	150°C – 190°C
Normal Pumping Temperature	>150°C

## Storage Information

Flexi Seal Polymer Modified Bitumen	
Short Term Storage Temperature (2 days)	180°C
Medium Term Storage Temperature (up to 5 days)	150 - 160°C
Long term storage temperature (beyond 5 days)	<150°C

### Critical: Long Term Storage

If there is a need to postpone spraying beyond 5 days, storage temperatures should be dropped immediately to <150°C.

### Critical: Rate of heating

Reheating needs to be undertaken slowly with the rate of heating not exceeding 10°C per hour.

Gentle circulation is required during heating. Never heat beyond 200°C.

## Sampling

Samples should be taken following transfer from storage or transport.

PPE as defined in the Material Safety Data Sheet should be worn when sampling Flexi Seal Polymer Modified Bitumen including face shield as the product is transferred at slightly elevated temperatures and splashes are always a risk.

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