



USED FOR



Waterproofing



Pot Holes

ENVIRONMENTS



Industrial



Residential



The next step in sustainable cold mix technology

EnviroBind is a bitumen emulsion designed for safe, cold-applied binder applications in cold mix materials. With a 60% bitumen content, EnviroBind delivers reliable cohesion and durability - without the need for heat. It's a cleaner, safer alternative to traditional solvent-based binders, supporting environmentally conscious construction practices.

Formulated primarily with 130/150 bitumen, its versatility makes it ideal for all cold mix applications, from patching and pothole repairs to full-depth pavement construction.

By eliminating the risks associated with hot mix and solvent-based systems, EnviroBind offers a modern solution for efficient, low-impact road maintenance and construction.

Treatment areas ideal for EnviroBind use

- In all situations where a cold mix material is to be produced without the need for heating
- Coating aggregate with a binder to produce cold mix material

Benefits

- Safer - much lower mixing temperature than other solvent-based binders for producing cold mix
- Excellent bond to substrate in damp conditions
- Lower emissions during manufacture and use
- Delivered in ready-to-use form, and can either be mixed cold or heated to 70°C

Specification

Typical properties of EnviroBind

Property	Method	Specification
Binder residue %	In-house method	> 50%

Properties



Emulsion



Reduced Emissions

Handling

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

EnviroBind	
Maximum safe handling temperature	90°C
Normal mixing temperature	25°C - 70°C

Circulation

Gentle stirring / circulation is required to prevent long term settling of the bitumen. Never allow EnviroBind to freeze, as due to the presence of water in the emulsion, the emulsion will break.

Heating

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

Never heat beyond 90°C.

Storage

EnviroBind	
Medium term storage temperature (Up to 5 days)	20°C - 70°C
Long term storage temperature (beyond 5 days)	20°C - 70°C

Equipment

Any plant capable of injecting emulsion and mixing aggregate

Sampling

Samples should be taken following transfer from storage or transport.

PPE as defined in the Safety Data Sheet should be worn when sampling EnviroBind including face shield as the product can be transferred at slightly elevated temperatures and splashes are always a risk.

Testing should be carried out by an IANZ-accredited laboratory that is experienced in the handling and testing of 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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