



Enviro Bind

Enviro Bind Bitumen Emulsion for use as a safe, cold applied binder to produce cold mix materials.

Enviro Bind is a 60% bitumen emulsion for use as a cold applied binder for producing cold mix products. Enviro Bind is normally made using 80/100 bitumen, but can be made from a wide range of binders, if required. Enviro Bind bitumen emulsion can replace solvent based binders for all cold mix applications.

Where to use Enviro Bind:

- In all situations where a cold mix material is to be produce without the need for heating
- Enviro Bind is delivered in a ready to use form and can be either mixed cold or heated to 85 °C if required
- Provides the safest method by which to coat aggregate with binder to produce cold mix material.

Benefits:

- Much lower mixing temperature compared with all solvent based binders for producing cold mix
- Excellent adhesion to the substrate
- Better bond to the substrate in damp conditions
- Lower emissions during manufacture and use.

Enviro Bind provides a safe and convenient method to produce cold mix materials.

Specification

Typical properties of Enviro Bind Bitumen Emulsion.

Property	Method	Specification
Binder Residue (%)	In-house method	>50%

Health & Safety

Enviro Bind can be handled at elevated temperatures (~80°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 Enviro Bind emulsion. Any spills on the skin should be washed off immediately with appropriate hand cleaners, do not use solvents.

A safety data sheet for Enviro Bind is freely available on the Road Science website and must be read and understood prior to handling the Enviro Bind emulsion.



Handling & Mixing Information

RS2 COLD MIX	
Maximum safe handling temperature:	90°C
Normal Mixing Temperature	25°C – 70°C

Storage Information

RS2 COLD MIX	
Medium term storage temperature (up to 5 days)	20°C - 70°C
Long term storage temperature (beyond 5 days)	20°C - 70°C
<i>Gentle stirring/circulation is required to prevent long term settling of the bitumen phase. Never allow Enviro Bind emulsion to freeze, as due to the presence of water in the emulsion, the emulsion will break.</i>	
Critical: Rate of heating	
The reheating of Enviro Bind emulsion needs to be undertaken slowly with the rate of heating not exceeding 10°C per hour.	
Never heat beyond 90°C.	

Sampling

Samples should be taken following transfer from storage or transport.

PPE as defined in the Safety Data Sheet should be worn when sampling Enviro Bind emulsion 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 registered laboratory that is experienced in the handling & testing of bitumen emulsions.

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