



# Enviro Epoxy Grout 100

## High Performance, Fluid Epoxy Grout System



### DESCRIPTION

Enviro Epoxy Grout 100 is a three component, high strength, fluid epoxy grout system offering premium performance for structural applications. Enviro Epoxy Grout 100 is specially designed for pile and pile top encapsulation and for grouting in tight clearances where maximum flow is required. Enviro Epoxy Grout 100 when applied will accept the application of most EnviroSystems spray and hand applied waterproofing membranes.

### FEATURES

- High Strength
- Long Term Service Life
- Bonds to Damp Surfaces
- High Chemical Resistance
- High Mechanical Strength
- Excellent Flow

### TYPICAL USES

Enviro Epoxy Grout 100 is a high-performance fluid epoxy grout system designed for applications where high strength and water tightness are required. Some applications where Enviro Epoxy Grout 100 can be used are as follows:

- Pile & Pile Top Encapsulation
- Crane Rails
- Wharf Pile Repairs
- Baseplate and Machinery Grouting
- Exterior Grouting
- Machinery with High Dynamic Loads and Vibration

### PHYSICAL PROPERTIES

Mix Ratio	Mix entire kits only
Appearance	Cream Paste
Pot Life @ 25°C	30 mins
Cure Time @25°C	24 hrs
Compressive Strength	1 day – 62MPa 7 days – 100MPa
Tensile Strength	16MPa
Volume Solids	100%
Brinell Hardness	36
Dielectric Strength	180kV/cm
Density (mixed)	1.6kg/L
Water Absorption (14 days, 20°C)	0.08%

### SUBSTRATE PREPARATION

All formwork should be constructed to be water tight as Enviro Epoxy Grout 100 is a fluid material. This can be achieved by using Enviro Seal PUR, foam rubber (or similar) beneath the constructed formwork and at / between joints. A release agent is also recommended for all contact points on formwork.

The surface must be clean and free of diesel, oils and grease. If concrete is defective or has laitance, it must be ground or cut back to a suitable sound base. Any rebar should be clean and rust free and can be primed with a suitable metal primer. Remove any free-standing water on application surface.

For further information on substrate preparation or for project specific advice, please consult EnviroSystems.

[customerservice@envirosystems.com.au](mailto:customerservice@envirosystems.com.au)





## MIXING

In a suitable mixing vessel, add entire contents of Part A and Part B and mix thoroughly by mechanical stirrer until mixed material is uniform. Ensure all material around bottom and sides of mixing vessel is incorporated.

Once Part A and Part B are homogeneous, slowly add Part C while stirring and mix for a further 2-3 minutes ensuring a uniform mix is achieved. DO NOT aerate the mix by stirring too fast or for too long. Once mixed, use the material within the specified time. Material should be discarded after this time has elapsed.

## APPLICATION

Ensure the mixed material is within the usable life of the product as continuous flow is essential. Sufficient product must be available prior to starting. Ensure the time taken to place a mixed batch is regulated to the time taken to prepare the subsequent batch.

For further information regarding application of Enviro Epoxy Grout 100 or for project specific advice please consult EnviroSystems.

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## RECOAT

Ensure Enviro Epoxy Grout 100 is cured sufficiently before the application of any subsequent coating. Lightly abrade the Enviro Epoxy Grout 100 surface to remove all traces of formwork release agent and to provide a mechanical key for optimum adhesion. Membrane should be subjected to a site adhesion trial to ensure complete compatibility.

## COVERAGE

The consumption of Enviro Epoxy Grout 100 will depend on weather, substrate conditions and application techniques.

### Recommendations for External Applications

1m<sup>2</sup>/kit at a DFT of 5mm

## CURE

Enviro Epoxy Grout 100 can generally be recoated overnight cure. Special precautions need to be taken during exterior application to guard against water whitening.

## PACKAGING & COLOURS

Enviro Epoxy Grout 100 is supplied in pre-proportioned 5.85L kits consisting of the following components;

**Part A** – 3L

**Part B** – 1L

**Part C** – 5kg

## CLEANING

Enviro Epoxy Grout 100 should be removed from tools and equipment immediately after use with Enviro Thinners No.1 or Thinners No. 7. Hardened material may only be removed mechanically.

## SHELF LIFE

Enviro Epoxy Grout 100 can be stored in its original sealed containers for 12 months, when placed in a cool environment out of direct sunlight. Once opened and resealed for later use, the shelf life could vary depending on storage conditions. Always check product quality before using after prolonged periods of storage. If unsure please contact EnviroSystems for advice.

## HEALTH & SAFETY ADVICE

Enviro Epoxy Grout 100 is non -hazardous according to Safe Work Australia criteria, however, as a precaution, always provide good ventilation when applying. Wash off splashes of material with clean water, wear gloves and eye protection. If irritation is experienced seek medical advice. Refer to the Safety Data Sheet for full safety and handling procedures.

**NOTE:** Safety Data Sheets are available upon request by emailing [customerservice@envirosystems.com.au](mailto:customerservice@envirosystems.com.au)

## We're here to help you!

It is a good idea to keep a journal of your waterproofing job, whether big or small.

- Take pictures at all stages of your work, including preparation
- Record the quantity and description of products used with corresponding batch numbers
- Record dates and times of when you applied products, from start to finish

Please do not hesitate to contact us for any questions you may have.

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