

Enviro Epoxy Grout 100

High-performance Fluid Epoxy Grout



DESCRIPTION

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

AREAS OF USE

SURFACES: Prepared concrete and steel, within watertight formwork.

AREAS: Pile and pile-top encapsulation, crane rails, wharf pile repairs, base plate and machinery grouting, exterior grouting, and machinery with high dynamic loads and vibration.

FEATURES & BENEFITS

- High compressive and tensile strength
- Long design life
- Bonds to damp surfaces
- High chemical resistance
- Excellent flow
- Accepts EnviroSystems waterproofing membranes.

PRODUCT INFORMATION

Packaging	Pre-proportioned kits – Part A 9L, Part B 3L, Part C 15kg
Shelf Life	12 months in original sealed containers
Storage Conditions	Store in a cool environment out of direct sunlight.

PHYSICAL PROPERTIES

Property	Test Method	Test Result
Appearance	–	Cream paste
Pot Life @ 25°C	–	30 minutes
Cure Time @ 25°C	–	24 hours
Compressive Strength	–	62 MPa @ 1 days; 100 MPa @ 7 days
Tensile Strength	–	16 MPa
Volume Solids	–	100%
Brinell Hardness	–	36
Dielectric Strength	–	180 kV/cm

Property	Test Method	Test Result
Density (mixed)	–	1.6 kg/L
Water Absorption	14 days @ 20°C	0.08%

COVERAGE RATE

Approximately 1m² per kit at 5mm thickness. Consumption depends on weather, substrate, and application technique.

SUBSTRATE PREPARATION

Construct all formwork to be watertight and apply a release agent to all formworks contact points.

All defective host substrate must be removed prior to application, including cracked or structurally weakened surfaces and chloride-contaminated or carbonated concrete. A concrete corrosion expert must be consulted for critical projects or structural applications.

Roughen host concrete with aggregate exposed and laitance removed, to a minimum CSP3 profile, by shot-blasting, scarification, mechanical chipping, or high-pressure water blasting. All surfaces must be free of dust, oils, and contaminants; this may require steam cleaning or high-pressure water blasting.

APPLICATION

Mixing: Add the entire contents of Part A and Part B to a suitable vessel and mix by mechanical stirrer until uniform, incorporating material from the base and sides. Slowly add Part C while stirring and mix for a further 2–3 minutes. Do not aerate by mixing too fast or too long. Use within the pot life and discard any material after this time.

Application: Continuous flow is essential – have sufficient product on hand before starting, and pace mixing so each batch is ready as the previous one is placed.

Overcoating: Allow to cure sufficiently (generally overnight), then lightly abrade to remove release agent and provide a mechanical key. Carry out a site adhesion trial with the selected membrane. Take precautions against water whitening during exterior application.

For applications or situations not covered above, contact EnviroSystems technical support.

CLEANING

Clean tools and equipment immediately after use with Enviro Thinner No. 1 or Enviro Thinner No. 7. Hardened material can only be removed



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mechanically.

LIMITATIONS

- Formwork must be watertight.
- Use within the 30-minute pot life.
- Carry out a site adhesion trial before overcoating with membrane.

HEALTH & SAFETY ADVICE

Enviro Epoxy Grout 100 is hazardous according to Safe Work Australia criteria. Part B is corrosive (Dangerous Goods Class 8) and can cause severe skin burns and eye damage. Always provide good ventilation and wear PPE, including gloves, eye protection, and a respiratory mask. Wash splashes with clean water. Refer to the Safety Data Sheet for full safety and handling procedures.

KEEP OUT OF REACH OF CHILDREN

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to accuracy, reliability, or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

NOTE: Field service where provided does not constitute supervisory responsibility. Suggestions made by Enviro systems, either verbally or in writing may be followed, modified, or rejected by the owner, engineer, or contractor since they, and not Enviro systems, are responsible for carrying out procedures appropriate to a specific project.

NOTE: All products manufactured by Enviro systems comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.

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