

Enviro Plug

Rapid-setting Cementitious Plugging Compound

DESCRIPTION

Enviro Plug is a rapid-setting cementitious compound that forms a durable plugging mortar to stop active water leaks in concrete and masonry. Once mixed with water and applied, it forms a watertight seal that stops running water immediately.

AREAS OF USE

SURFACES: Concrete and masonry with active leaks.

AREAS: Tanks, lift pits, manholes, sewage systems, foundations, suspended slabs, reservoirs, basements, tunnels, pipes, wall/floor junctions, and rapid anchoring of bolts and fixtures.

FEATURES & BENEFITS

- Rapid setting – stops running water immediately.
- Just add water.
- Free of chloride admixtures
- Excellent workability
- Expands while setting for a crack-free seal.
- Non-shrink

PRODUCT INFORMATION

Packaging	8kg Pails
Colour	Grey
Shelf Life	12 months from date of production in original sealed packaging
Storage Conditions	Store in a cool, dry place.
Compatible Membranes	Enviro Hydrostatic 1
Compatible Additives	Enviro Mortar Additive

PHYSICAL PROPERTIES

Property	Test Method	Test Result
Initial Set	GB 23440-2009	1.5 minutes
Final Set	GB 23440-2009	3 minutes
1-hour Compressive Strength	GB 23440-2009	16 MPa
1-hour Bending Strength	GB 23440-2009	4.7 MPa

Property	Test Method	Test Result
Adhesion Strength	GB 23440-2009	1.3 MPa

COVERAGE RATE

Mix only what can be placed by hand in one application – typically a tennis-ball-sized amount of about 0.5kg.

SUBSTRATE PREPARATION

Surfaces must be clean and free from dust, laitance, grease, coatings, and curing compounds, with sharp edges and projections removed. Cut out the area to a minimum 20mm wide and deep with square sides – avoid a “V” profile; a dovetailed profile gives the best mechanical key.

APPLICATION

Mixing: Mix by hand only (not mechanically) with a clean spatula or trowel and rubber gloves. Add powder to an empty pail, then add water – approx. 150mL per 1kg as a guide – and mix quickly to a putty consistency. Use warmer water in cold conditions and cooler water in hot conditions.

Plugging: Hold the mix in a gloved hand until slight warmth or signs of setting appear, then press firmly into the opening by hand or trowel. It sets in 30 seconds to 1 minute – then slowly withdraw. For large openings, work from the sides towards the centre. Once the leak stops, sand the patch to match the surrounding profile. For wall/floor junctions, cut out to at least 20mm wide and form a 45° cove approximately 40mm wide.

Anchoring bolts: Drill a hole allowing approx. 10mm around the bolt, pack with mortar, push the bolt into position and pack firmly around it. Keep moist with a water mist or damp sponge for 15–20 minutes while it sets.

Curing: Sets in approximately 1–3 minutes. Once hard, keep damp for at least 15 minutes.

Overcoating: Once the leak has stopped, can be overcoated with the Enviro systems range of primers – see the relevant data sheets.

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

CLEANING

Clean tools and surfaces with water immediately, before the product cures. Cured material can only be removed by mechanical grinding.

LIMITATIONS

- Do not use below 1°C.



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- Do not apply to concrete treated with curing compounds.
- Mix by hand only.

HEALTH & SAFETY ADVICE

Enviro Plug is hazardous according to Safe Work Australia criteria. Always provide good ventilation when mixing and applying, and wear gloves and eye protection. Wash splashes with clean water. If in eyes, flush for 15 minutes and seek immediate medical attention. If irritation occurs, seek medical advice. 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 EnviroSystems, either verbally or in writing may be followed, modified, or rejected by the owner, engineer, or contractor since they, and not EnviroSystems, are responsible for carrying out procedures appropriate to a specific project.

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

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