

enviro mortar HB 30

High Performance
Light Weight Repair Mortar



enviro systems

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Description

Enviro Mortar HB 30 is a lightweight - high build, concrete repair mortar specifically designed for the reinstatement of reinforced concrete. Formulated to produce strength with long-term durability.

Advantages

- High Build
- Non Shrink
- Long-Term Durability
- Easy Application
- Polymer Modified
- Internal and External Use

Uses

Enviro Mortar HB 30 is a high build repair mortar for the reinstatement of large areas of reinforced concrete. It achieves its best compatibility with concrete greater than 15 MPa compressive strength. Enviro Mortar HB 30 is designed for repair of columns, beams, soffits and overhead repair works. It can be applied in sections up to 60mm thick in vertical applications and up to 40mm thick in overhead applications, in a single layer.

Physical Properties

Enviro Mortar HB 30 is supplied as a 20 kg light-weight repair mortar.

• Mixing Ratio	3.4 3.6 ltr:20 kg bag	• Yield Approx	13 ltr per 20 kg bag
• Set Times	Initial - 3 hours at 20°C Final - 5 hours at 20°C	• Build	Trowel - 5 – 60mm Spray - 5 – 70mm
• Compressive Strength	10 MPa at 1 day 20 MPa at 7 days 30 MPa at 28 days	• Tensile Strength	1.7 MPa at 28 days
		• Fresh Wet Density	Approx 1400 kg/m ³
		• Flexural Strength	4.5 MPa at 28 days

Application Directions

Substrate Preparation

The surface must be clean, and free from loose particles, including dust, laitance, grease, coatings, curing compounds, or any other foreign matter. Saw cut the perimeter of the locations requiring repair to a depth of 10mm to avoid feather-edging. Expose any corroded steel. Steel must be cleaned to a bright condition removing any corrosion. Wire brushing or abrasive-blasting is recommended.

Priming

The substrate should be thoroughly soaked with clean water and any excess removed prior to proceeding. Apply a cement rich slurry coat of Enviro Mortar HB 30 to the repair area, allow to become tacky before proceeding with the application of Enviro Mortar HB 30. Contact WT for specific application priming advice.

Mixing

Mix Full Bags only. Add 3.4 to 3.6 ltr of clean water for each 20 kg bag of Enviro Mortar HB 30. Mix using mechanical mixing equipment with suitable mixing paddle attached. Mix for 5 minutes or until a lump free homogeneous consistency is achieved.

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Application Directions (cont)

Application

Enviro Mortar HB 30 can be applied using trowel or wet spray. Apply the mixed Enviro Mortar HB 30 to the area, compact the mortar onto the substrate and around the reinforcement. Enviro Mortar HB 30 can be applied up to 60mm on vertical locations and up to 40mm on overhead locations in a single layer. Where thicker repairs are required then multiple layers must be used to achieve the required thickness.

Estimating Data (Theoretical)

The yield of Enviro Mortar HB 30 will depend on the consistency used. The yield is reduced when spray application is used. One 20 kg bag of Enviro Mortar HB 30 will yield approximately 13 ltr.

Packaging

Enviro Mortar HB 30 is supplied as a dry 20 kg bag.

Cleaning

Enviro Mortar HB 30 should be removed from all tools and equipment, prior to hardening, with water. Cured material can only be removed mechanically.

Safety Advice

Enviro Mortar HB 30 is classified as hazardous. Always provide adequate ventilation and wear appropriate Personal Protection Equipment (PPE) during use. If swallowed, DO NOT induce vomiting, have plenty of water or milk. Seek immediate medical advice. Wash off splashes of material with clean water and soap. If irritation occurs seek medical advice. Refer to MSDS.

KEEP OUT OF REACH OF CHILDREN.



Manufactured by Waterproofing Technologies Pty Ltd

Address: 295 Princes Highway St Peters NSW 2044 Sydney Australia

Telephone: +61 2 8595 8699

Facsimile: +61 2 8595 8660

Web: www.envirosystems.com.au

Statement of Responsibility

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Note:

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