

enviro epoxy RC

High Build Epoxy Coating



Date: April 2011
Issue: 5

Description

Enviro Epoxy RC is a high build, chemically resistant, heavy duty, two component epoxy resin system. Enviro Epoxy RC once applied produces a hard wearing, durable surface suitable for commercial / industrial vehicular and pedestrian traffic. This system also performs well in demanding chemical environments.

Advantages

- Easy 2 Coat Application
- Chemical Resistance
- Very Low VOC Content
- Long Durability
- Heavy Duty
- Damp substrates
- High Build
- Colour Pack System

Uses

- Food Production
- Chemical Production
- Water Treatment and Supply
- Internal Car Parks
- Water Waste Treatment
- Mining
- Commercial Kitchen and Laundries
- Warehouse Floors
- Dairy, Sugar and Textile Production

Physical Properties

Enviro Epoxy RC is supplied as a 2-Part high build epoxy coating.
Part A: Base, liquid - Part B: Hardener, liquid (colour pack required).

- | | | | |
|-----------------------------------|-----------------|------------------|-----------------|
| • Solids Content | 85% vol/vol | • Tack Free Time | 4 hours at 25°C |
| • Mix Ratio | 1A:1B vol/vol | • Recoat Time | 8 hours at 25°C |
| • Working Time | 40 mins at 25°C | • Cure Time | 7 days at 25°C |
| • Working Time (with accelerator) | 25 mins at 25°C | • Shelf Life | 2 years |

Application Directions

Substrate Preparation

The surface must be clean, and free from all loose particles, including dust, all laitance, grease, coatings and curing compounds. Degreasing, grinding and/ or captive shot blasting are required to provide a surface profile. Allow floor to dry if degreasing has been carried out, before applying Enviro Epoxy RC.

Priming

Apply first coat of Enviro Epoxy RC as a primer (diluted 10-15% with Enviro Thinner No.1) if substrate is in good condition. The level of Enviro Thinner No.1 required will depend on conditions, application equipment and surface porosity. For poor substrates apply one coat of Enviro Epoxy B-LV or an additional coat of diluted Enviro Epoxy RC and allow to dry.

Mixing

When using a colour pack add to part A and mechanically mix until uniform. Add Part B and remix until components are uniformly mixed.

continue on next page >

environmentally responsible technology

Application Directions (cont)

Application

Mix only sufficient material as can be applied within work time specified. Enviro Epoxy RC can be applied by brush, roller and spray in 2 coats to a minimum dry film thickness of 200 um. At low temperatures, Enviro Epoxy Accelerator to maintain normal curing times. 200ml of Enviro Epoxy Accelerator should be added for every 8L of mixed Epoxy RC. Accelerator should only be added to mixed Part A and Part B and mixed until uniform. To achieve a non slip finish, broadcast selected aggregate onto 1st wet coat and allow to cure. Remove excess prior to applying a second coat. A satin finish can be achieved by omitting aggregate.

Estimating Data

Depending on substrate condition and profile, one 16 ltr kit of Enviro Epoxy RC will cover at 50 – 65m² based on 2 coats at 200 um DFT.

Packaging

Enviro Epoxy RC is supplied in 7.25 ltr and 14.5 ltr kits, proportioned ready for mixing. Colour Packs supplied in 750ml pails and are available in a range of colours. Made to order colours available upon request. Please allow 10 working days for made to order colours. One 750ml colour pack is required for every 7.25 ltrs of Enviro Epoxy RC.

Chemical Resistance

Enviro Epoxy RC is resistant to a large range of chemicals. Guide of resistance to chemical spillages is as follows:

- Sulphuric Acid 30%
- Acetic Acid 15%
- Sodium Chloride
- Kerosene
- Diesel and Petrol
- Skydrol
- Sodium Hydroxide 30%
- Hydrochloric Acid
- Ammonia Solution
- Volatile Hydrocarbon Solvents
- Xylene
- 20% phosphoric acid
- Sodium Hypochlorite 16%

Curing

Enviro Epoxy RC generally can be recoated after allowing to cure overnight. Floors can be open to pedestrian traffic generally 24 hours after curing of the final coat. Vehicular traffic after 3 days. The coating must be allowed to cure for 7 days at 24°C, before being subjected to chemicals.

Storage

Enviro Epoxy RC can be stored in its original sealed containers for 24 months in controlled environments.

Cleaning

Enviro Epoxy B should be removed from all tools and equipment, prior to hardening with Enviro Thinners No.1 or Thinners No.7. Observe all OH&S and MSDS information pertaining to safe usage and handling of solvents. Cured material can only be removed mechanically.

Safety Advice

Enviro Epoxy RC contents are flammable. Keep away from naked flame. In the event of fire extinguish with foam or CO₂. Always provide adequate ventilation and wear appropriate Personal Equipment (PPE) during use. Avoid breathing vapours. Avoid contact with the skin. Wear protective eyewear. 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

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 general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its 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 application.