



Enviro Ultra Tuff

Solvent Free High Chemical Resistant Epoxy Coating



DESCRIPTION

Enviro Ultra Tuff Coating is a solvent free, 100% solids, high chemical resistant coating. It is unique in that it combines the advantages of a solvent free system with novolac chemistry. Once cured it produces a smooth, glossy finish which is hard, durable and easy to maintain.

FEATURES

- Solvent free
- 100% solids - free of volatile components
- Exceptional chemical resistance
- Colour pack system
- Tolerant to damp substrates
- Gloss appearance
- Excellent resistance to crude oil up to 120°C
- Excellent resistance to a wide range of chemicals.
- Easy to clean
- Nil explosion risk and fire hazard

TYPICAL USES

- Secondary containment / bunded areas
- Tank linings
- Production and manufacturing plants
- Food production processing facilities
- Pharmaceutical
- Plantrooms
- Warehouses
- Carparks
- Areas where high chemical resistance is required

PHYSICAL PROPERTIES

Enviro Ultra Tuff is supplied as a 2-Part epoxy coating.

Part A: Base, liquid

Part B: Hardener, liquid (colour pack required)

Solids Content	100 % (v/v)
Mix Ratio	Part A to Part B 3 / 1 v/v
Pot Life	40 minutes @ 23°C
Pot Life with Accelerator	20 minutes
Tack Free Time at 25°C	6 hours
Trafficable	72hrs @ 23°C
Recoat Time	16 hours
Cure Time	7 days
Shelf Life	24 months

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 Ultra Tuff.

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

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PRIMING

Prime the substrate using Enviro Epoxy BLV. For poor substrates apply an additional coat after allowing the first coat to dry overnight.

MIXING

When using a colour pack add to **Part A** and mechanically mix until uniform. Add **Part B** and re-mix until components are uniformly mixed. Colour Packs Ratios: 1 pack to make a 8L kit and 2 for the 16L kit.





APPLICATION

Mix only enough material that can be applied within work time specified.

Enviro Ultra Tuff can be applied by brush, roller and spray in 2 coats to minimum dry film thickness of 250 µm.

At low temperatures, add Enviro Epoxy Accelerator to maintain normal curing times. 200 ml of accelerator should be added for every 8L of mixed Enviro Epoxy CR. Accelerator should be added to the mixed Part A & Part B and mixed until uniform.

To achieve a non-slip finish, broadcast selected aggregate onto the first coat and allow to cure overnight. Remove excess prior to applying a second coat.

NOTE: For further information regarding application of Enviro Ultra Tuff or for project specific advice please consult EnviroSystems.

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COVERAGE

The coverage of Enviro Ultra Tuff will depend upon the weather, type of substrate and its condition. When prepared and primed in accordance with the instructions above, the following average coverage rates should be expected.

Application 6.7 sq. m / Litre at 150 µm DFT

Practical Coverage is approximately 54 sq. m per 16 L when applying 2 coats at 150 µm DFT per coat.

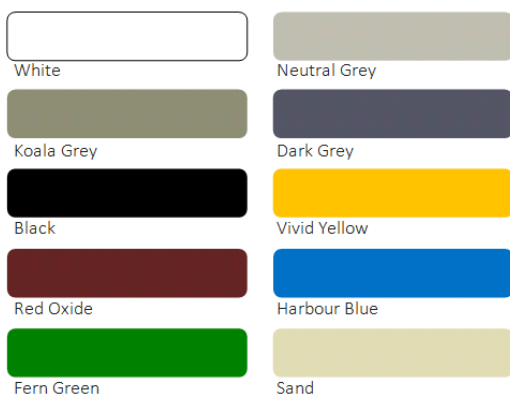
CURING

Enviro Ultra Tuff generally can be recoated after allowing curing overnight. Floors can be open to pedestrian traffic generally 24 hours after curing of the final coat and vehicular traffic after 3 days.

NOTE: Allow the coating to cure for at least 7 days at 24°C before being subjected to chemicals.

PACKAGING & COLOURS

Enviro Ultra Tuff is supplied in in 7.25 L and 14.5 L kits, proportioned ready for mixing. Colour packs supplied in 750 ml pails and are available in a range of colours. Made to order colours available upon request. Please allow 15 working days for made to order colours. One 750 ml colour pack is required for every 7.25 L of Enviro Ultra Tuff.



CHEMICAL RESISTANCE

Chemical exposure will depend on expected exposure time, concentration, composition & temperature range. Enviro Ultra Tuff is resistant to large range of chemicals. Guide of resistance to chemical spillages is as follows: (Evaluation on the result of the increase in weight of a sample placed in the test liquid with the dimensions (50 mm x 50 mm x 3 mm) at 25°C after 14 days.

Chemical Resistance coding:

- + Resistant
- 0 Conditionally Resistant
- Not Resistant

Chemical	Result	Chemical	Result
Acetic Acid 5 %	+	Milk	+
Acetic acid 10 %	+	Mineral Oil	+
Acetic acid 30 %	0	Nitric Acid 5%	+
Ammonia 10 %	+	Nitric Acid 10%	0
Ammonia 20 %	+	Nitric Acid 30%	0
Ammonia 25 %	+	Nitric Acid 40%	-
Antifreeze (Glycol containing)	+	Olive Oil	+
Aromatic Hydrocarbons	+	Oxalic Acid	+
Benzene	+	Petrol	+
Butanol	+	Phenol	-
Butyl Acetate	0	Phosphoric acid 5%	+
Citric Acid 30%	+	Phosphoric acid 10%	+
Crude Oil	+	Phosphoric acid 45%	0
Dibutyl Ether	+	Phosphoric acid Conc.	-
Dibutyl Phthalate	+	Potassium Hydroxide	+
Diesel Oil	+	Propyl alcohol	0
Ethanol	-	Sewage	+
Ethanol 10%	0	Silicone Oil	+
Tall Oil	+	Sodium Chloride 30%	+
Formaldehyde 35%	+	Sodium Chloride Conc.	+
Glycerol	+	Sodium Hydroxide 10%	+
Grape Juice 80°C	+	Sodium Hydroxide 30-40%	+
Hydraulic Fluid (Skydrol B500)	+	Sodium Hydroxide 50% at 50°C	+
Hydrochloric Acid 5%	+	Sodium Hypochlorite	0
Hydrochloric Acid 10%	+	Sulphuric Acid 5,10,20%	+
Hydrochloric Acid 30%	+	Sulphuric acid 30 & 60%	0
Hydrochloric Acid 37%	0	Sulphuric Acid 78%	-



Hydrogen Peroxide 3%	+	Water 100°C	+
Isopropanol	0	White Spirits	+
Jet Fuel	+	Whisky	+
Lactic Acid 1%	+	Wine	+
Linseed Oil	+	Xylene	+

CLEANING

Epoxy HCR should be removed from all tools and equipment prior to hardening with Enviro Thinners or Thinners No.7.

Observe all OH&S and SDS information pertaining to safe usage and handling of solvents. Cured material can be removed mechanically.

NOTE: For further information regarding solvents or for project specific advice please consult EnviroSystems. customerservice@envirosystems.com.au

STORAGE

Enviro Ultra Tuff can be stored in its original sealed containers for 24 months in controlled environments.

HEALTH & SAFETY ADVICE

Epoxy HCR is not flammable. Always provide adequate ventilation and wear appropriate Personal Protective Equipment (PPE) during use. Avoid breathing vapours.

Avoid contact with skin. Wear protective eyewear. If swallowed DO NOT induce vomiting. Wash off splashes of material with clean water and soap. Refer SDS for comprehensive details.

KEEP OUT OF REACH OF CHILDREN.

NOTE: Safety Data Sheets are available upon request by emailing 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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