

Enviro Ultra Tuff

SOLVENT FREE HIGH CHEMICAL RESISTANT EPOXY COATING

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

FEATURES AND BENEFITS

- ④ Solvent free
- ④ 100% solids
- ④ Exceptional chemical resistance
- ④ Colour pack system
- ④ Tolerant to damp substrates
- ④ Gloss appearance
- ④ Excellent resistance to crude oil up to 120°C
- ④ Excellent resistance to a wide range of chemicals
- ④ Easy to clean
- ④ Nil explosion risk and fire hazard

APPLICATION SOLUTIONS

- ④ Secondary containment/bunded areas
- ④ Tank linings
- ④ Production and manufacturing plants
- ④ Food production processing facilities
- ④ Pharmaceutical
- ④ Plantrooms
- ④ Warehouses
- ④ Carparks
- ④ Areas where high chemical resistance is required

PRODUCT INFORMATION

Packaging: Enviro Ultra Tuff is supplied in 8L and 16L kits including part A, part B and colour pack, proportioned ready for mixing.

Mix ratio: Enviro Ultra Tuff is supplied as a 3-Part epoxy coating.

Part A to Part B to Colour Pack, 10.5/4/1.5, v/v/v.

Shelf life: Enviro Ultra Tuff can be stored in its original sealed containers for 12 months in controlled environments.

Colours: Colour Packs supplied in 750ml 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.



CLEANING

Enviro Ultra Tuff should be removed from all tools and equipment prior to hardening with Thinners No.1 or Thinners No.7.

Observe all OH&S and Safety Data Sheet 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 Enviro systems.



FLOORING



Directions for Use

SUBSTRATE PREPARATION

All defective host substrate must be removed prior to application. Defective material includes cracked or structurally weakened surfaces and chloride contaminated and carbonated concrete. A concrete corrosion expert must be consulted for critical projects or structural applications. The surface must be dry, 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.

PRIMING

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

NOTE: For further information on applications that may not require priming or for project specific advice, please consult Enviro systems.

MIXING

Enviro Epoxy Ultra Tuff is supplied in pre proportioned kits ready for mixing, it is critical that only full kits are mixed. Mix Part A with Colour pack(s) until uniform colour, then add Part B and mix with a mechanical mixer at low speed with a suitable mixing paddle attached. Mix for 5 minutes or until uniform with a mechanical mixer at low speed (less than 400 RPM) prior to application.

APPLICATION

Mix only enough material that can be applied within the specified pot life.

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

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 Enviro systems.

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: 6.7m²/L at 150µm DFT

Practical Coverage is approximately 43 to 53m²/16L Kit when applying 2 coats at 150µm 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.

Product Data

PHYSICAL PROPERTIES

PROPERTY	
Solids Content	100% (v/v)
Mix Ratio	A:B 3:1 in volume
Pot Life	40 minutes @ 23°C
Tack Free Time	6 hours @ 25°C
Trafficable	72 hours @ 23°C
Overcoating Time	23°C: min. 12 hours, max. 48 hours
Cure Time	7 days
Shelf Life	24 months

CURING TIME

TEMPERATURE	MINIMUM RECOAT	MAXIMUM RECOAT	FULL CURE
24°C @ 50% RH	8 hours	24 hours	7 days

Variations in temperature and humidity can affect the cure rate of the coating. The above chart should be used as a guide only to determine the approximate rate of cure. Other factors can also influence the cure rate such as substrate temperature, enclosed environments and wind conditions.

Product Data

CHEMICAL RESISTANCE

Chemical exposure will depend on expected exposure time, concentration, composition and 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	RESULT	CHEMICAL	RESULT
Acetic Acid 5%	Resistant	Milk	Resistant
Acetic Acid 10%	Resistant	Mineral Oil	Resistant
Acetic Acid 30%	Conditionally resistant	Nitric Acid 5%	Not resistant
Ammonia 10%	Resistant	Nitric Acid 10%	Conditionally resistant
Ammonia 20%	Resistant	Nitric Acid 30%	Conditionally resistant
Ammonia 25%	Resistant	Nitric Acid 40%	Not resistant
Antifreeze (Glycol containing)	Resistant	Olive Oil	Resistant
Aromatic Hydrocarbons	Resistant	Oxalic Acid	Resistant
Benzene	Resistant	Petrol	Resistant
Butanol	Resistant	Phenol	Not resistant
Butyl Acetate	Conditionally resistant	Phosphoric acid 5%	Resistant
Citric Acid 30%	Resistant	Phosphoric Acid 10%	Resistant
Crude Oil	Resistant	Phosphoric Acid 45%	Conditionally resistant
Dibutyl Ether	Resistant	Phosphoric acid Concentrated	Not resistant
Dibutyl Phthalate	Resistant	Potassium Hydroxide	Resistant
Diesel Oil	Resistant	Propyl alcohol	Conditionally resistant
Ethanol	Not resistant	Sewage	Resistant
Ethanol 10%	Conditionally resistant	Silicone Oil	Resistant
Tall Oil	Resistant	Sodium Chloride 30%	Resistant
Formaldehyde 35%	Resistant	Sodium Chloride Concentrated	Resistant
Glycerol	Resistant	Sodium Hydroxide 10%	Resistant
Grape Juice 80°C	Resistant	Sodium Hydroxide 30 - 40%	Resistant
Hydraulic Fluid (Skydrol B500)	Resistant	Sodium Hydroxide 50% @ 50°C	Resistant
Hydrochloric Acid 5%	Resistant	Sodium Hypochlorite	Conditionally resistant
Hydrochloric Acid 10%	Resistant	Sulphuric Acid 5, 10, 20%	Resistant
Hydrochloric Acid 30%	Resistant	Sulphuric Acid 30 and 60%	Conditionally resistant
Hydrochloric Acid 37%	Conditionally resistant	Sulphuric Acid 78%	Not resistant
Hydrogen Peroxide 3%	Resistant	Water 100°C	Resistant
Isopropanol	Conditionally resistant	White Spirits	Resistant
Jet Fuel	Resistant	Whisky	Resistant
Lactic Acid 1%	Resistant	Wine	Resistant
Linseed Oil	Resistant	Xylene	Resistant



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HEALTH & SAFETY ADVICE

Enviro Ultra Tuff 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 to the Safety Data Sheet for comprehensive details.

NOTE: Safety Data Sheets are available on the Enviro systems website

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 of 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 application.

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.