

Enviro 850 T.C.

High Performance Fast Curing UV Resistant Coating



DESCRIPTION

Enviro 850 TC is a two component, solvent free, 100% solids coating based on polyurea combinations. Enviro 850 TC is fast curing, designed for commercial and industrial applications requiring high wear resistance and prompt return to service.

FEATURES

- Fast Curing
- Solvent Free
- UV Resistant
- High Chemical Resistance
- Vehicular Traffic
- Zero Shrinkage
- 100% Solids
- Colour Fast
- Excellent Abrasion Resistance
- Fast Build

TYPICAL USES

Due to fast curing times, Enviro 850 TC is ideal for businesses and industries where it is critical to have areas back in service quickly following the application. Enviro 850 TC can be applied to a suitably primed substrate where heavy duty traffic is anticipated. Areas include the following;

- Car Park Decks
- Loading Bays
- Marine
- Multi-level Buildings
- Pontoons
- Bridge Decks
- Balconies
- Platforms

PHYSICAL PROPERTIES

UV Resistant ASTM G 154 (UVB/313)	(QUV 1000hrs)
Hard Dry	24 hours
Pot Life 30°C	25 mins approx.
Pot Life 20°C	30 mins approx.
Pot Life 15°C	35 mins approx.
Application Method	Brush or Roller
Substrate Application Temperature	10°C (optimum)
Volume Solids	100%
VOC Content	23 grams / litre
Walkable	Within 60-90 mins
Heat Resistance (Dry Heat)	
Permanent	+80°C
Brief (Max. 7 days)	+100°C
Brief (Max. 12 hrs)	+120°C
Chemical Resistance	72hrs (min cure time)
Resistance to Water	Excellent (min cure 6hrs.)
Abrasion Resistance	Very Good

SUBSTRATE PREPARATION

Surfaces must be clean, dry and free from contamination such as dust, laitance, grease, coatings and curing compounds. Remove all sharp edges including screws, nails and concrete/mortar projections.

Concrete Substrate — All concrete surfaces must be at least 28 days old. The surface must be clean, dry and free from all loose particles including dust, laitance, grease, coatings, curing compounds and any other foreign matter. The substrate must be prepared by way of degreasing, grinding or captive shot blasting to provide an adequate surface profile.

Waterproofing Membrane Substrate—The waterproofing membrane surface must be cured, dry and clean from all contamination. Primer is not generally required for direct applications to waterproofing membrane applications.



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

customerservice@envirosystems.com.au

PRIMING

Suitable primers for use with Enviro 850 TC include:

- Enviro Prime P2
- Enviro Epoxy B-LV
- Enviro Epoxy RC
- Enviro Prime ME
- Enviro Prime AC
- Enviro Prime FM

When applying Enviro 850 PUR TC directly over existing Enviro products; Enviro HP1200, Enviro 700 series and Enviro 900 series without priming is permissible however must be strictly within the specified overcoat windows as advised in the respective product data sheets.

NOTE: For further information or clarification on regarding priming requirements or for project specific advice, please consult EnviroSystems.

customerservice@envirosystems.com.au

MIXING

All mixing is to be mechanical using drill with paddle attachment and not exceeding 300 RPM.

Mixing with Addition of Enviro Thinners No. 8

When applying in warm and humid conditions i.e. above 25 degrees 70% RH or where surface to be applied temp exceeds 30 degrees the addition of Enviro Thinners # 8 may assist with spreadability and extending the pot life. Enviro 850 TC should be thoroughly mixed using a mechanical mixer at low speed (approx. 300rpm) prior to application. Allow approx. 8 - 10 minutes for this process. Do not skip any steps. Do not exceed 1 litre by volume of thinners #8 in total, added to the 10 litre kit, i.e. maximum mix volume is 11 litres.

Step 1. Mix Part A thoroughly. 2 - 3 minutes.

Step 2. Add the colour pack to the mixed part A and mix until the colour is uniformly mixed through. Pour approx. 300 - 400ml of thinners # 8 of into the colour pack container, swirl around to capture all the colour pigment and add into the main mixture. Repeat this step. This ensures all the colour pigment has been used. Continue mixing until uniform colour and consistency. Approx. 2 - 3 mins.

Step 3. Add Part B hardener and continue mixing. Allow another 2-3 mins for this step. Meanwhile or concurrently pour approx. 100 - 200 ml of thinners # 8 of into the Part B container, swirl around

NOTE: Start mixing your next kit approx. 10 mins before anticipated finish time for rolling out the current kit. This will allow you to join neatly while existing rolled out product is still nice and wet.

APPLICATION

Enviro 850 TC can be applied using a brush, roller.

Over primed concrete or steel: Apply 2 coats evenly to a wet film thickness of 150 microns per coat.

Over unprimed Enviro HP1200 and Enviro 700 series membranes within overcoat window: Apply 2 coats evenly at a wet film thickness of 150 microns.

Over unprimed Enviro 900 series wear coats within overcoat window: Apply 2 coats evenly at a wet film thickness of 150microns.

When applying by roller it is recommended to use a high quality 360mm wide x 8mm nap roller cover with a double ended roller frame. This will assist with achieving the maximum spreading rate and allow even roller pressure to be applied which contributes to an overall professional and aesthetically pleasing finish.

To achieve a non-slip finish, broadcast selected aggregate into first wet coat and allow curing. Remove excess aggregate prior to applying the second coat.

Avoid wide temperature differences between the product and the surface as this could have an adverse effect on the end-product. Allow the material to acclimatize for at least 24 hrs. Multicomponent products may only be applied when the relative humidity is less than 85%.

The minimum application temperature is 10°C and the temperature of the surface to be treated must be 3°C above the dew point.

Substrates with a low temperature will affect the application and the usage of the coating per square meter. If required dilute with Enviro Thinners # 8 as per mixing instructions.

NOTE: You have approx. 25 - 30 mins pot life to roll out 40 - 60sqm. Suggest grid off this target area so you know you're getting average coverage rates.

For further information regarding application of Enviro 850 TC including overcoat windows of Enviro products or for project specific advice please consult EnviroSystems.

customerservice@envirosystems.com.au



RECOAT

	32-35°C	22-25°C	8-10°C
Min.	1hr	2hrs	4hrs
Max.	16hrs	24hrs	48hrs

CURE

Curing is accelerated in high ambient or substrate temperatures and slowed in lower temperatures.

Enviro 850 TC will reach full cure after 7 days.

RETURN TO SERVICE (DRYING) TIMES

Drying Times Depend on:

- Air Temperature
- Surface Temperature
- Film Thickness
- Ventilation
- Relative Humidity

Drying	32 – 35°C	22 – 25°C	8 – 10°C
Service Personnel	1 hr	2 hrs	4 hrs
Light Pedestrian traffic	2 hrs	4 hrs	12–16 hrs
Heavy Pedestrian Traffic	16 hrs	24 hrs	36 hrs
Light Vehicular Traffic	24 hrs	36 hrs	48 hrs
Heavy Vehicular Traffic	48-60 hrs	72hrs	98–120 hrs

PACKAGING & COLOURS

Enviro 850 TC is supplied in 10L kit and comes in standard colours as shown below. Custom made colours are available by special order, however lead times are impacted.

CLEANING

Enviro 850 TC should be removed from all hand tools, brushes, power tools with Enviro Thinner No. 8 prior to curing.

SHELF LIFE

Enviro 850 TC can be stored in its original sealed containers for 12 months, when placed in a cool, dry environment. Once opened and resealed for later use, the shelf life could vary depending on storage conditions. Always check product quality before using after prolonged periods of storage. If unsure, please contact EnviroSystems for advice.

HEALTH & SAFETY ADVICE

When using Enviro 850 TC always provide adequate ventilation and wear appropriate personal protection equipment (PPE) during use. Avoid contact with skin, avoid breathing vapours. Wear protective eyewear. If inhalation effects occur remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed. Seek medical attention, Refer MSDS for full details. Refer to the Safety Data Sheet for full safety and handling procedures.

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.

EnviroSystems Technologies Pty Ltd

Address 295 Princes Highway, St Peters NSW 2044 Sydney, Australia
Phone +61 2 8595 8699
Fax +61 2 8595 8660
Email customerservice@envirosystems.com.au
Web www.envirosystems.com.au

DATE: April 2018



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 EnviroSystems Technologies either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not EnviroSystems Technologies are responsible for carrying out procedures appropriate to a specific application.