



Enviro Prime AC

Anti-Corrosive Primer



DESCRIPTION

Enviro Prime AC is a two component anti-corrosive epoxy primer with corrosion inhibitor zinc phosphate for the protection of metal and concrete surfaces. Enviro Prime AC exhibits excellent adhesion to properly prepared aluminium, steel and galvanized steel. Enviro Prime AC affords superior corrosion protection to properly prepared metals and concrete when used in conjunction with Envirosystems brush, roller & sprayed applied topcoats i.e. Polyurethanes, Polyureas & Polyaspartics.

FEATURES

- High build, high performance anti-corrosive primer
- Abrasion resistant
- Can be applied by brush, roller & spray
- High solids
- Excellent Adhesion to metals & concrete
- 1:1 Mix Ratio v/v
- Chemical resistant
- Cures down to 5°C

TYPICAL USES

To promote adhesion to properly prepared metal surfaces prior to the application of products such as Enviro HP1200, Enviro HP1550 and Enviro HP1600 in the below areas;

- Coal wash plants
- Mining
- Steel structures in industrial environments
- Salt & fresh water immersion with suitable topcoats
- Tank exteriors with suitable aliphatic topcoats
- Exterior of water towers
- Exterior of Pipes
- Refineries
- Chemical plants

- Materials Handling Applications
- Critical Waterproof Areas

PHYSICAL PROPERTIES

Mix Ratio (by volume) 1:1

Hard Dry @ 25 °C 16 hrs

Pot Life @ 20°C 40 – 50 minutes

Re-coat Time @ 25°C 16 – 24 hours

Volume Solids 85 ± 2%

Coverage @ 125 um 7 m²/ L
@ 150 um 5.8 m²/ L
@ 200 um 4.4 m²/ L

Thinner Thinner No. 1 (spraying 10 - 15% reduction)

Colour Grey

Mild Atmospheric Exposure

1st Coat - AC 125 - 150 µm
2nd Coat - 850 TC - 125 µm

Moderate Atmospheric Exposure

1st Coat – AC 125 – 150 um
2nd Coat – RC 150 um Epoxy
3rd Coat – 850 TC 125 um 850

Typical Systems

Severe Atmospheric Exposure

1st Coat - AC 150 -200 µm
2nd Coat - RC - 150 µm
3rd Coat RC - 150 µm
4th Coat - 850 TC 150 µm

SUBSTRATE PREPARATION

The surface must be clean, dry and free from all loose particles including dust, laitance, grease, coatings, curing compounds and any other foreign matter. This is achieved using a biodegradable degreasing solution in accordance with AS1627.1.





Alternatively, solvent wiping using a solvent based degreaser can be used. Clean dry untreated rags must be used and changed regularly to ensure the oil is removed and not spread over a larger area. Soluble salts and biodegradable degreasing solution residue shall be removed by low pressure water washing using potable water. Grind all sharp edges and corners to a minimum radius of 2mm. Remove all weld slag and spatter and grind all weld seams and high spots smooth.

Mild Steel

Abrasive blast all surfaces in accordance with AS1627.4 to minimum Sa2½ (AS1627.9). A surface profile of 50 - 75µm shall be achieved. Vacuum all preparation residues. Blasted surfaces shall be primed prior to deterioration or contamination. The surface shall resemble the specified visual standard and profile immediately prior to priming.

Aluminium / Galvanized Steel / Stainless Steel

Low pressure sweep abrasive blast using inert media (e.g. garnet) to achieve a roughened uniform flat appearance over the entire surface. Vacuum all preparation residues. Blasted surfaces shall be primed within 4 hours and before any contamination occurs.

Other Metals

Test Patches of the complete coating system should be examined and tested for adhesion to ensure suitability of Enviro Prime AC for other metallic surfaces.

Concrete Surfaces

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.

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

customerservice@envirosystems.com.au

SUBSTRATE TEMPERATURE & APPLICATION CONDITIONS

Substrate temperature during application to be at least 5°C above dew point. During application temp. to be between 5 – 40°C. Relative humidity not to exceed 85%.

MIXING

Pre-mix Part A with pneumatic air mixer at moderate speed until uniform. Add supplied Colour Pack to Part A and mix until uniform.

Add Part B to Part A and re-mix with a power mixer for 2-3 minutes until both components are uniformly mixed.

Allow to stand for 5 minutes at 20°C prior to use.

Colour Pack Ratios

- 1 Colour Pack for the 7.25 kit
- 2 Colour Packs for the 14.5 L kit

Addition of Thinners

The addition of thinners to Enviro Prime AC may be required to provide good flow properties and better film build control. Thin up to 10 % using Enviro Thinner No.1. Add thinner to the mixed Part A & Part B with constant stirring and stir slowly until uniform and smooth.

APPLICATION

Enviro Prime AC can be applied by brush, roller & spray.

Brush – Use as is, if required add up to 5% v/v enviro Thinner No. 1.

Roller – Use medium nap roller, reduce 5 – 10% v/v with Enviro Thinner No.1

For further information regarding application of Enviro Prime AC or for project specific advice please consult EnviroSystems.

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Conventional Spray

Typical Set Up:	
Graco Delta Gun	1.8mm
Pressure at Pot	70-100kPa
Pressure at Gun	380-415kPa

5-10% v/v Enviro Thinner No.1 may be used for ease of application.

Airless Spray

Std. Airless Eqpt. Such – Graco 45/1 Xtreme

Fluid Tip	0.43-053mm
Air Supply	550-690kPa at the pump.

5-10% v/v Enviro Thinner No.1 may be used for ease of application.

COVERAGE

The consumption of Enviro Prime AC will depend upon substrate condition and type.

- @ 125 µm 7 sq. m per L
- @ 150 µm 5.8 sq. m per L
- @ 200 µm 4.4 sq. m per L

For further information regarding application of Enviro Prime AC or for project specific advice please consult EnviroSystems.

CLEANING

Clean all mixing and application equipment immediately after use with Enviro Thinner No.1. Cured Enviro Prime AC is difficult to remove by solvents and therefore spillages should be minimized and clean up immediately to limit damage.



PACKAGING & COLOURS

Enviro Epoxy AC is supplied 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 10 working days for made to order colours.

SHELF LIFE

Enviro Prime AC can be stored in its original sealed containers for 12 months, when placed in a cool controlled environment, out of direct sunlight, and between 15-25°C. 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 Prime AC 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 to 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.

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