ENVIROSET 4116

TECHNICAL DATA SHEET

Two Pack Universal Solvent Free Epoxy Roll Coat/Self-smoothing Topping.

A & I Coatings ENVIROSET 4116 is a two pack pigmented, solvent free, 100% solids epoxy with excellent surface hardness and adhesion. It exhibits high water resistance, chemical and oil resistance with the ability to build virtually unlimited film thickness.

USES & BENEFITS

Uses

- Concrete protection
- Floor Coatings
- Repaints/ maintenance
- Wear resistant coating
- Workshops
- Extendable with fine dried sand for thicker self smoothing build
- Warehouses
- Carparks
- Amenities
- Manufacturing Facilities
- Self smoothing slurry layers

Benefits

1. Can be used as an intermediate coat and also for a subsequent topcoat for A & I Coatings high performance coating system
2. Exceptionally hard wearing
3. Easy mix ratio
4. Excellent flow properties.
5. Light reflective
6. Easy to clean

Limitations

1. Amine bloom may occur if humidity is above 80%.
2. Minimum surface temperature should be at least 3˚C above dew point at time of application and initial cure.
3. This product will chalk when continuously exposed to sunlight.

PHYSICAL PROPERTIES

Vehicle Type	Epoxy
Hardener	Amine
Mixing Ratio	3:1(Part A : Part B) by Volume
Pot Life	Approx. 25 minutes @25°C using standard hardener.
Finish	Gloss
Theoretical Coverage	Roll Coat: 4-6m2/L @160-250µmDFT
	1mm skim layer: One 10L kit will cover 10m2
	2mm self-smoothing layer: One 10L kit extended with 9kg of 50N sand will cover approximately 6.7m2.
	3mm self-smoothing layer: One 10L kit extended with 9kg of 50N sand will cover approximately 4.5m2.
Volume Solids	100%
Usual No. of Coats	2-3 (dependent on substrate) when used as a roll coat system.
Primer Required	Not for concrete. For other substrates, contact A&I Coatings
Colour	8 standard colours or any RAL or AS 2700S colours.
Pigmentation	Titanium dioxide and other pigments
Product Weight	1.5Kg/Litre

ENGINEERING DATA

Abrasion Resistance	Very good
Chemical Resistance	Enviroset 4116 displays resistance to many common chemicals in spill or splash situations at ambient temperatures. The following chemicals are an example only. Consult A&I for specific applications. · Hydrochloric Acid (10%) · Kerosene · Toluene · Nitric Acid (10%) · Turpentine · Organic Food Matter · Sulfuric acid (40%) · Skydrol · Grease · Uric acid (concentrated) · Hydraulic Fluid · Wine · Sodium hydroxide (10%) · Brake Fluid · Diesel · Hydrogen peroxide (3%) · Motor Oil · Hydrocarbon solvents Some chemicals may cause surface staining from prolonged exposure without impacting the coating integrity. Data is available on request. Exposure based on spills and splashes cleaned within 24hrs
Dry Heat Resistance	Up to 120°C
Hot water resistance	Up to 70°C
Durability	Excellent, but will chalk under UV exposure without damage to the integrity of the coating.

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A&I COATINGS

CURING DATA	Substrate Temp.(°C)	Foot Traffic	Vehicular Traffic	Full Cure	Recoat Time min
	25 °C	24 Hrs	72 Hrs	7 Days	12 Hrs
	Note: When overcoating with an epoxy based topcoat, this should occur within 36hrs at 25°C. No water or condensation should contact the coating for 5 days from installation.				
SURFACE PREPARATION	Concrete	Allow new concrete to cure for minimum 28 days prior to coating. Surface must be sound, dry, free from all loose material, laitance, old coatings, dust and surface contaminants (e.g. oil, grease, chemicals, release/curing agents etc). Substrates must be mechanically treated by abrasive blasting or grinding to achieve a clean anchor pattern for best adhesion. Oily surfaces must be detergent cleaned and water blasted. Please note that moisture content in the concrete must be no greater than 4% pbw prior to application of the E4116. Ensure no rising moisture will occur in concrete by means of an effective subgrade damp proof membrane. Concrete to be min 25Mpa compressive strength and 1.5Mpa pull off strength.				
APPLICATION DATA	Mixing	Power stir Pack A, then blend with Pack B to correct ratio. Power stir thoroughly for two minutes prior to use. Only mix required amount and use within the stated pot life. If Using Unpigmented Pack A, add the 1kg Colour pot to Pack A and mix for 1 minute before adding Pack B and mixing again for 2 minutes. When using as a self-smoothing topping, only add sand after Pack A and B have been thoroughly mixed.			
	Application	Roll coat: 10-13mm Nap Roller.			
		Self-smoothing topping: Pin rake, flat trowel, spike roller.			
	Ambient Temperature	Apply between 8-35 °C			
	Thinning	Only when used as a Roll coat can it be thinned. If required, use Methylated Spirits or V122 Epoxy Thinners. Maximum thinner addition is 10% of mixed quantity and only added after Pack A and B has been mixed. After Thinners added, a further 45 seconds mixing is required.			
	Cleaning	Use Xylene or Acetone for clean-up.			
PACKING & STORAGE	Packing	Available in 10L packs. For other sizes, contact A & I Coatings.			
	Storage	12 months if stored in sealed containers away from heat and moisture. Subject to re-inspection thereafter.			

All applicable statutory regulations must be observed in the application of this product. Users must first read the Safety Data Sheet for ENVIROSET 4116. Users should familiarize themselves with all the safety aspects of the product prior to use.
Please ensure the current Technical Data Sheet is consulted prior to specification or application of A & I Coatings products. A & I Coatings will in many instances provide Area Specific Instruction Sheets which contain detailed instructions on how to achieve desired results for specific areas. If the surface intended to be painted differs from the specification, please consult the A & I Coatings Technical team on 1800 819 585.

All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation. Note: The figures quoted for pot life and drying/curing times are not definitive. They are dependent on onsite conditions, such as volume of material mixed, ambient and substrate temperatures, weather and ventilation. DISCLAIMER Since the use and application of this product is beyond our control, we cannot be held responsible for product field performance. The information presented above is the result of our considerable experience with this product but is not to be construed as a performance warranty. For additional information, phone our Customer Service Centre on 1800 819 585, or e-mail helpdesk@aicoatings.com Visit our website for more products: www.aicoatings.com

A&I COATINGS

PO Box 820
Moss Vale NSW 2577

7 Lackey Road
Moss Vale NSW 2577

Australia **1800 819 585**
International **+61 2 4869 1441**
Fax **+61 2 4869 3031**
Email **helpdesk@aicoatings.com**
www.aicoatings.com