

ENVIROSET 4113

TECHNICAL DATA SHEET

Two Pack Stipple Finish Solvent Free Epoxy



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A & I Coatings ENVIROSET 4113 is a two-pack pigmented, stipple finish solvent free 100% solids epoxy with excellent surface hardness and adhesion. It exhibits high water resistance, chemical and oil resistance.

• Concrete protection • Floor Coatings • Repaints/ maintenance • Wear resistant coating

USES & BENEFITS

Benefits

1. Can be used as an intermediate coat and for a subsequent topcoat for A & I Coatings high performance coating system
2. Exceptionally hard wearing
3. Texture stipple finish

Limitations

1. Amine bloom may occur if humidity is above 80%.
2. Minimum surface temperature should be at least 3°C above dew point.
3. This product will chalk when continuously exposed to sunlight.
4. Curing is slower in cold weather.

PHYSICAL PROPERTIES

Vehicle Type	Epoxy
Hardener	Amine
Ratio	3:1(Part A : Part B) by Volume
Pot Life	Approx. 45 minutes @ 25°C using standard hardener.
Finish	Gloss
Theoretical Coverage	4-6m ² per litre @160-250µmDFT (160-250µmWFT)
Volume Solids	100%
Recommended DFT	160-250µm/coat. Dependent on application
Usual No. of Coats	2-3 (dependent on substrate)
Colour	Unlimited colour range
Pigmentation	Titanium dioxide and other pigments
Primer Required	Primer not required for concrete
Product Weight	Primer not required for concrete

ENGINEERING DATA

Abrasion Resistance	
Chemical Resistance	
Dry Heat Resistance	Up to 120°C
Solvent Resistance	
Durability	Excellent, but will chalk under UV exposure without damage to the integrity of the coating

CURING DATA

Substrate Temp.(°C)	Touch Dry	Light Foot Traffic	Full Cure	Recoat Min
Standard Hardener 25°C	6 Hrs	24 Hrs	6 Days	16 Hrs
Fast Hardener 25°C	2 Hrs	8 Hrs	6 Days	3 Hrs

Note: Maximum recoat varies with the environmental conditions and the topcoat used

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APPLICATION DATA	Mixing	Power stir Pack A, then blend with Pack B to correct ratio. Power stir thoroughly for one to two minutes prior to use. Only mix required amount and use within the stated pot life. For untinted kits mix the tint pot into part A and mix for one minute followed by adding part B and mixing for a further two minutes. Ensure sides of mixing pail are well scraped and no unmixed material remains.
	Application	10-13mm Nap Roller. If possible, apply in decreasing temperatures to minimise the possibility of concrete outgassing.
	Cleaning	Use Acetone, Xylene or MEK for cleaning tools and application equipment.
	Thinning	If required, use V122 Epoxy Thinners or Xylene up to a maximum of 10%. High dosages of solvent will lessen degree of stipple.
SURFACE PREPARATION	Concrete	<ul style="list-style-type: none">■ New concrete should be allowed to cure for 28 days prior to coating.■ Concrete must be a minimum of 25 mpa compressive strength and 1.5mpa tensile strength.■ 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.).■ Preparation to be in accordance with ICRI CSP 2-3.■ Oily surfaces must be detergent cleaned and water blasted.■ The concrete slab must be free of rising moisture and have an effective DPM.■ Please note that moisture content in the concrete must be no greater than 4% prior to application of the E4113.
WORK STOPPAGES	General	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with A & I Coatings recommended cleaner. Once units of paint have been mixed, they should not be resealed, and it is advised that after prolonged stoppages work commences with freshly mixed units.
	Clean Up	Clean all equipment after use with A & I Coatings recommended cleaner. It is good work practice to periodically flush out spray equipment during the course of the working day. Frequency of cleaning will depend upon amount sprayed, temperature and elapsed time (including delays).
PACKING & STORAGE	Packing	Available in 10L factory pre-tinted kits or 6.9L untinted kits which require 1 x 1kg colour pot.
	Storage	12 months if stored in sealed containers away from heat and moisture above 10°C. Subject to re-inspection thereafter.

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HEALTH & SAFETY

All applicable statutory regulations must be observed in the application of this product. Users must first read the Material Safety Data Sheet for ENVIROSET 4113. Users should familiarise 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-site 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