ENVIROSET 4001

TECHNICAL DATA SHEET

Two Pack 100% Solids Epoxy Penetrating Primer
Green Concrete Primer/Moisture Barrier

A & I Coatings ENVIROSET 4001 is a clear two pack, solvent free, 100% solids epoxy with excellent penetration, surface hardness and adhesion to concrete substrates. It exhibits high water resistance, chemical and oil resistance.

USES & BENEFITS

Uses
- Penetrating moisture tolerant primer for concrete substrates.

Benefits

1. Can be used as a seal coat and also for a subsequent coat for A & I Coatings' high performance coating system
2. Exceptional wetting characteristics & hard wearing
3. Can be used as air releasing sealer for new concrete surfaces
4. Can be applied to Damp Concrete to act as a moisture barrier for green concrete. Application up to 95%RH.
5. Can be used on oil contaminated concrete where impossible to remove all contamination. (not standing surface oil)

Limitations

1. This product will chalk when continuously exposed to sunlight.
2. Amine bloom may occur if humidity is above 80%.
3. Minimum surface temperature should be at least 3˚C above dew point.
4. Do not use for immersion service unless adequately top coated
5. Whilst E4001 is a moisture barrier for green concrete, it is not to be used on substrates with rising moisture from subgrade.

PHYSICAL PROPERTIES

Vehicle Type	Epoxy
Hardener	Amine
Mixing Ratio	2 : 1 (Part A : Part B) by Volume
Pot Life	Approx. 45 mins @25°C
Finish	Gloss
Theoretical Coverage	5-10 m^2/litre dependent on application.
Volume Solids	100%
Recommended DFT	When used as a moisture barrier on green concrete, 2 coats are required. Each coat is to be applied 5-6m2/Litre . When used as a moisture barrier, concrete to be coarsely ground/blasted and all surface laitance removed. Concrete needs to be sufficiently hard to accommodate mechanical preparation.
Usual No. of Coats	1-2 (dependent on substrate)
Colour	Clear
Product Weight	1.10Kg/Litre Pack A, 0.98 Kg/Litre Pack B
VOC Content	Under 50g/L

ENGINEERING DATA

Abrasion Resistance	Very good
Dry Heat Resistance	Up to 120°C
Wet Heat Resistance	Up to 70°C
Solvent Resistance	Excellent for many solvents
Durability	Excellent, but will chalk under UV exposure without damage to the integrity of the coating.

CURING DATA

Substrate Temp.(°C)	Foot Traffic	Vehicular Traffic	Full Cure	Recoat Time min
25 °C	24 hrs	72 hrs	7 Days	16 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	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. Ensure no rising moisture will occur in concrete by means of an effective subgrade damp proof membrane. Can be applied to damp concrete to act as a moisture barrier for green concrete. Application up to 95%RH. Concrete to be min 25Mpa compressive strength and 1.5Mpa pull off strength.

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APPLICATION DATA	Mixing	Blend Pack A with Pack B to correct ratio. Power stir thoroughly for at least two minutes prior to use. Only mix required amount and use within the stated pot life.
	Application	Brush and Roller
	Ambient Temperature	Apply between 8-35^{o}C
	Thinning	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 15L kits.
	Storage	12 months if stored in sealed containers away from heat and moisture. Subject to re-inspection thereafter. Store above 10^{o}C.

All applicable statutory regulations must be observed in the application of this product. Users must first read the Material Safety Data Sheet for ENVIROSET 4001. 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 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

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