ENVIROSET 4111

TECHNICAL DATA SHEET

Two Pack Clear Solvent Free Epoxy Primer/Sealer/Binder

A & I Coatings ENVIROSET 4111 is a clear two pack, 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
- Joint repair
- Repaints/ maintenance
- Wear resistant coating
- Binder for epoxy mortar
- Forming falls to drains
- Epoxy Primer

Benefits

1. Exceptionally hard wearing
2. Fast cure
3. Low viscosity
4. Excellent levelling capacity when used as a skim or scratch coat
5. Simple mix ratio
6. Will not crystalise in cold weather
7. Cost effective
8. Shrink free

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	2:1(Part A : Part B) by Volume
Pot Life	Approx. 30 mins @25^{o}C
Finish	Gloss
Theoretical Coverage	5-8m^{2} /litre when used as a primer
Volume Solids	100%
Colour	Clear
Mixed Product Weight	1.05 Kg/Litre

ENGINEERING DATA

Abrasion Resistance	Very good
Chemical Resistance	Enviroset 4111 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%) · MEK · Toluene · Hydrocarbon solvents · Nitric Acid (10%) · Kerosene · Grease · Sulfuric acid (40%) · Turpentine · Organic Food Matter · Uric acid (concentrated) · Skydrol · Wine · Sodium hydroxide (10%) · Hydraulic Fluid · Diesel · Hydrogen peroxide (3%) · Brake Fluid · Motor Oil Some chemicals may cause surface staining from prolonged exposure without impacting the coating integrity. Data is available on request. Exposure based on spill and splashes cleaned within 24hrs
Dry heat resistance	Up to 120^{o}C
Hot water resistance	70^{o}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.(^{o}C)	Foot Traffic	Vehicular Traffic	Full Cure	Recoat Time min
Standard Hardener 25^{o}C	24 Hrs	72 Hrs	7 Days	12 Hrs

Note: When overcoating with an epoxy based topcoat, this should occur within 36hrs at 25^{o}C.
No water or condensation should contact the coating for 5 days from installation.

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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 E4111. 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	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. Add kiln dried sand if making a mortar only after A and B are mixed.
	Application	Brush and Roller. Trowel when used as a mortar.
	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.Thinning is only permitted for thin film priming not for mortars or layers above 500 micron.
	Cleaning	Use Xylene or Acetone for clean up.
PACKING & STORAGE	Packing	60L kits
	Storage	12 months if stored in sealed containers away from heat and Moisture. Subject to re-inspection thereafter. Store at ambient temperatures..

All applicable statutory regulations must be observed in the application of this product. Users must first read the Material Safety Data Sheet for ENVIROSET 4111. 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

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