

# ENVIROSET 4112



## Two Pack Pigmented Solvent Free Epoxy

Technical Data Sheet Number 410



PRODUCT DESCRIPTION	A & I Coatings <b>ENVIROSET 4112</b> 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	<ul style="list-style-type: none"> <li>Concrete protection</li> <li>Floor Coatings</li> <li>Joint repair</li> <li>Steel in extreme environments</li> <li>Repaints/ maintenance</li> <li>Wear resistant coating</li> </ul>				
	<u>Benefits</u> <ol style="list-style-type: none"> <li>Can be used as an intermediate coat and also for a subsequent topcoat for A &amp; I Coatings high performance coating system</li> <li>Exceptionally hard wearing</li> </ol>	<u>Limitations</u> <ol style="list-style-type: none"> <li>Amine bloom may occur if humidity is above 80%.</li> <li>Minimum surface temperature should be at least 3°C above dew point.</li> <li>This product will chalk when continuously exposed to sunlight.</li> <li>Curing is slower in cold weather. Fast hardener is available</li> </ol>			
PHYSICAL PROPERTIES	Vehicle Type	Epoxy			
	Hardener	Amine			
	Mixing Ratio	3:1(Part A : Part B) by Volume			
	Pot Life	Approx. 20 minutes @25°C using standard hardener and 10 minutes @25°C using fast hardener. Must be stirred thoroughly			
	Finish	Gloss			
	Theoretical Coverage	4-6m <sup>2</sup> 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)			
	Primer Required	Dependent on substrate. Contact A & I Coatings technical team for specifications			
	Colour	Light grey and pastel colours			
	Pigmentation	Titanium dioxide and other pigments			
	Product Weight	1.351Kg/Litre			
ENGINEERING DATA	Abrasion Resistance	Very good			
	Chemical Resistance	Contact A & I Coatings for specific recommendations. Resistant to a wide range of acids and alkalis, vegetable and mineral oils. Not resistant to strong oxidizing acids, phenols or amines			
	Dry Heat Resistance	Up to 120°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)	Touch Dry	Light foot traffic	Full Cure	Recoat Time 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			

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. Allow to stand for 10 minutes in cooler weather. If using as an epoxy mortar mix up to 4 parts sand to 1 part epoxy. For self-levelling application mix up to 2 parts mixed epoxy to 1 part sand.
Application	Airless spray, brush or roller. Trowel when used as a mortar.
Thinning	If required, use Methylated Spirits or V122 Epoxy Thinners.
Cleaning	Use V105 or V114 Thinners for clean-up.
Concrete	New concrete should be allowed to cure for 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.). Smooth or contaminated surfaces 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. In some instances, acid etch and water blasting may be adequate to form a 'key' for sufficient adhesion. We would recommend the concrete be primed with ENVIROSET 4001 prior to the application of the ENVIROSET 4112 dependent on condition. Please note that moisture content in the concrete must be no greater than 4% prior to application of the E4112. Ensure no hydrostatic pressure present.
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 recommences 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	Available in 10L packs. For other sizes, contact A & I Coatings.
Storage	12 months if stored in sealed containers away from heat and moisture above 100C. 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 4112. 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](mailto:helpdesk@aicoatings.com) Visit our website for more products: [www.aicoatings.com](http://www.aicoatings.com)

March 2023 - THIS DATA SHEET SUPERSEDES THOSE PREVIOUSLY ISSUED.