Enviro HP1200 AC

Colourfast Aliphatic Polyurea Membrane

DESCRIPTION

Enviro HP1200 AC is 100% solids, two-component, fast-cure, aliphatic pure polyurea spray elastomer. It is formulated to maintain high colour stability and resist discolouration under long-term UV exposure, making it ideal as a colourfast membrane or as a stand-alone coating on concrete, steel, timber, ceramic, and PU foam.

AREAS OF USE

SUBSTRATES: Concrete, steel, timber, ceramic, and PU foam.

AREAS: Exterior surfaces requiring colour stability – roofs, garages and car parks, airports, shipyards and marinas, theme parks, playgrounds, and decorative applications.

FEATURES & BENEFITS

- 100% colour stable – aliphatic, UV resistant
- Fast return to service
- Excellent corrosion resistance
- Excellent temperature stability
- High water resistance
- VOC free
- Various build thicknesses achievable

PRODUCT INFORMATION

Packaging	40L Kit (Part A 21kg / Part B 20kg) and 400L Kit (Part A 210kg / Part B 200kg)
Colour	Standard colour range – see Colour Range. Other AS 2700 colours on request.
Mix Ratio	1 : 1 by Volume
Finish	Pigmented, semi-gloss
Shelf Life	9 months minimum in unopened containers stored at 25°C
Storage Conditions	Store in dry, shaded conditions away from heat and frost, in original sealed containers protected from moisture. Purge part-used containers with nitrogen or desiccated air before resealing.
Compatible Primers	Enviro Prime P2

STANDARD COLOUR RANGE



Colours can be matched from Australian Standard AS 2700. Specific vibrant colours will need to be matched and produced, and in some cases, this can affect the price of the material. Standard colours are offered with no minimum order quantity (MOQ) but are subject to general Lead Times.

Colours shown are a guide only and may vary with surface texture, preparation, and application. Select the final colour from a site-applied sample.

PHYSICAL PROPERTIES

Property	Test Method	Test Result
Volume Solids	–	100%
VOC	–	0 g/L
Specific Gravity @ 25°C	–	1.05–1.08
Gel Time	–	15–30 seconds
Pull-off Adhesion	ASTM D4541 (20mm dolly)	Concrete >1 MPa
Elongation @ 24°C	ASTM D638	>370%
Tensile Strength	ASTM D638	>12 MPa
Abrasion Resistance	EN ISO 5470-1 (H22, 1000 g)	228 mg
Hardness	ASTM D2240	Shore D 40–45

COVERAGE RATE

Application	Litres/m²	Coats	Finished DFT
Typical Application	3.0	1	3.0mm (3000 µm)

Theoretical coverage 0.33 m²/L at 3000 µm DFT.

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SUBSTRATE PREPARATION

Concrete: Minimum 28 days old with moisture content below 7% (confirm by ASTM D4263 plastic sheet test). Remove laitance, release agents, and contaminants. Fill bug holes, remove high spots, radius sharp edges, and cove internal corners with a 20mm 45° chamfer. Prepare to CSP 2–5 by abrasive or hydro blasting, scabbling, or diamond grinding. Acid etching is not acceptable.

Steel: Remove all rust, mill scale, oil, and previous coatings. Blast clean to Sa 2.5 (AS 1627.9) with an 80–100 µm profile. For permanent immersion, remove soluble salts.

Timber: Prepare to a clean, dry, sound finish free of contamination.

Priming: Prime bare concrete, steel, and timber substrates with the suitable Envirosystems primer and allow to cure before application, as per the respective data sheet.

Over Enviro HP1200 AC: Apply within the Enviro HP1200 AC overcoat window. If exceeded, prime with Enviro Prime P2 before application.

APPLICATION

Preconditioning: In cold weather, pre-condition Parts A and B to about 20°C before processing.

Mixing: Stir Part B at high speed with a drum stirrer for about 10 minutes, then reduce to slow during spraying. Avoid entrapping air. Never thin.

Equipment: Heated, high-pressure plural-component proportioner (Graco E-XP2 or similar) with an impingement-mix airless gun (Graco Fusion-AP or similar). For specialist applicators only.

Spray Setting	Value
Part A Temperature	65°C
Part B Temperature	65°C
Hose Temperature	65°C
Working Pressure	>2200 psi

Environment: Relative humidity below 85%; substrate at least 3°C above dew point and minimum 5°C.

Substrate Temp.	Tack Free	Hard Dry	Walk On	Full Cure
25°C	45–60 seconds	1 hour	10 minutes (with care)	7 days

Recoating: Maximum self-recoat window is 20 minutes (5–45°C). Before resuming next-day spraying, mechanically abrade the cold edge at least 100mm wide and vacuum all swarf; mask the cured coating for a neat edge. Water immersion after 24 hours. The film remains soft for up to 15 minutes after tack-free – take care not to damage it.

For applications or situations not covered above, contact Envirosystems technical support.

CLEANING

Flush equipment and hoses with a suitable reactor flush. Soak contaminated metal gun parts in a suitable swell solvent – never use swell solvents on painted surfaces or to flush pumps and hoses.

LIMITATIONS

- Must only be applied with specialised plural spray equipment by an experienced applicator.
- Requires up to 14 days to develop full physical properties and adhesion – adhesion testing before this may be inaccurate.
- Never thin.

HEALTH & SAFETY ADVICE

Enviro HP1200 AC is for professional use only. It contains isocyanates and may require the use of air-fed hoods. Do not use without first consulting the Safety Data Sheet. Observe all applicable health, safety, and environmental legislation.

KEEP OUT OF REACH OF CHILDREN

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to accuracy, reliability, or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

NOTE: Field service where provided does not constitute supervisory responsibility. Suggestions made by Envirosystems, either verbally or in writing may be followed, modified, or rejected by the owner, engineer, or contractor since they, and not Envirosystems, are responsible for carrying out procedures appropriate to a specific project.

NOTE: All products manufactured by Envirosystems comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.

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