

PRODUCT DATA SHEET

DATE 8 JULY 2022



enviro**systems**

Protective Coatings & Sealants

INDUSTRIAL | COMMERCIAL | RESIDENTIAL

ENVIRO HP1200

HIGH PERFORMANCE, SOLVENT FREE, SPRAY APPLIED, HYBRID ELASTOMER MEMBRANE



WATERPROOFING

DESCRIPTION

Enviro HP1200 is a two component, spray applied, solvent free, flexible, 100% solids hybrid polyurethane waterproofing membrane. Enviro HP1200 is uniquely formulated to provide high elasticity, tensile and tear strengths while also possessing excellent abrasion resistance.

CLASSIFICATION

AS/NZS 4858:2021 CLASS III APPROVED

AS4654.1.2:2012: NON EXPOSED CLASS III APPROVED

GREEN STAR COMPLIANT

Design and As Built v1.2, Section 13.1.1

AREAS OF USE

SURFACES: Most common substrates include concrete, block, render, timber, fibre cement sheeting, cross laminated timber, glass reinforced concrete and steel.

AREAS: Wet areas, podiums, green roofs, roof tops, car parks, stadiums, balconies, planter boxes, retaining walls, cut and covered tunnels.

FEATURES & BENEFITS

- Fast curing
- Solvent free
- Seamless application
- Trafficable with excellent durability
- Elastomeric
- Low VOC
- Excellent abrasion resistance
- Convenient 1:1 mix ratio
- Excellent abrasion resistance

PRODUCT INFORMATION

Packaging Available in 43kg kits [Green]. Kits ratio is 1:1 (A:B).

Shelf Life Enviro HP1200 can be stored in its original sealed containers for 12 months. Once opened and resealed for later use, the shelf life could vary depending on storage conditions. Always check product quality before using after prolonged periods of storage.

Storage Conditions Enviro HP1200 should be stored in dry conditions, where it is protected from direct sunlight and at temperatures between +5 °C and +35 °C.

COVERAGE RATE

Type	Kg /m ²	m ² /kit	WFT per Coat	Number of Coats	Finished DFT (all coats)
External Applications	1.6	26.8	1.5 mm	1	1.5 mm

Coverage dependent on weather and substrate conditions.

CURING TIME

Full cure can be achieved in 5-7 days. Curing rate is dependent on ambient and substrate temperatures and relative humidity. Generally, as the temperature increases, the curing time decreases.

PHYSICAL PROPERTIES

Property	Test Method	Test Result
Volatile Organic Compounds (VOCs)	SCAQMD Method 304-91	21 (g/L)
Bond Strength	ASTM C794	51.77 N
Tensile Strength	AS1145.3	8.86 Mpa
Elongation	AS1145.3	450%
Shore A Hardness	AS1683.15.2	80 ± 3
Tear Propagation Resistance	DIN53515/ISO34-1	14 (N/mm)
Tear Strength (angle)	AS1683.12/ISO	43.7 (kN/m)
Adhesion to Concrete	DIN 1048	>1.0 Mpa
Abrasion Resistance	AS1683.21	228 mg
Crack Bridging	ZTV-SIB90	2
Dynamic Crack Bridging (mm)	ZTV-SIB	0.2
Methane Permeance	ASTM D1434	<26.0 (cm ³ /m ² *Atm*24hrs)
Water Vapor Transmission (WVT)	ASTM E96	1.44 (g/m ² /day)
Water Absorption	AS3558.1	Pass
Low Temperature Water Tightness	DIN EN 13897:2005.02	Pass
External Membrane (nonexposed)	AS4654.1:2012	Class III
Internal Wet Area Membrane	AS4858:2004	Class III
Cyclic Movement	CSIRO Joint Test	Pass
Root Resistance	AS 4654.1	Pass
UV Accelerated Weathering Test	DIN EN 1297	No cracks or crazes (5000 hrs)
Heat Ageing	AS4654.1	Pass



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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.

TWO YEAR MARINE BORER TEST (LJ COOKSON CONSULTING)

Result: Survived a moderate Sphaeroma, a high teredinid hazard and a moderate Limnoria hazard.

FIRE INDEX (AS/NZS 1530.3:1999)

Ignitability	Spread of Flame	Heat Involved	Smoke Developed
17	7	3	6

CHEMICAL TESTING

Material	Resistance
Hydrochloric acid (10%)	Great
Methylated Spirits	Good
Petrol	Good
Sodium Hydroxide (20%)	Excellent
Xylene	Good

*General housekeeping rules should apply and any spills should be cleaned up immediately. Further chemical resistance ratings available upon request.

DIRECTIONS FOR USE

SUBSTRATE PREPARATION

Surfaces must be clean, dry and free from contamination such as dust, laitance, grease, coatings and curing compounds. Remove all sharp edges including screws, nails and concrete/mortar projections. Apply a suitable polyurethane sealant (and allow to cure), to all joints, cracks etc. prior to the application of Enviro HP1200. Enviro HP1200 is suitable for use over the following substrates:

- New Concrete - Cured for min. 28 days and under 6% moisture (gravimetric method)
- Fibre Cement Sheets - Walls (min. 6mm)
- Renders and Screeds - Cured for min. 7 days under 6% moisture (gravimetric method)
- Compressed Fibre Cement (min. 15mm)
- Plasterboard walls - Wet area grade only (min. 10mm)
- Plywood (PAA) - Wet area grade only
- Steel

NOTE: Mechanical abrasion of the substrate is recommended for pedestrian traffic applications. Substrate moisture content measured using gravimetric testing. As measured using Tramex CME 4 Moisture Meter.

PRIMING

Substrate condition and other requirements will dictate primer selection. Apply Enviro Epoxy B-LV (sand seeded) or Enviro Prime P2 (sand seeded) to suitably prepared substrate by brush, roller or squeegee as per individual products recommendations. Allow primer to fully cure before proceeding with the application of Enviro HP1200. Refer to selected primer product data sheets for further application details.

BOND BREAKING

Apply a suitable polyurethane sealant to form smooth, 12mm flexible cove to all internal corners, penetrations and joints, and 15mm for external applications. Allow to cure prior to application of Enviro HP1200.

MIXING

Mixing by way of 1:1 mix ratio (by volume) in heated plural component spray equipment such as Graco E-10 or EXP-2. Both low- and high-pressure spray equipment can be used for the application of Enviro HP1200.

Equipment Pressure	2000 psi minimum	
Gun	#02 Spray Chamber	
	Hose Temp	System Temp
Part A	60°C	60°C +
Part B	60°C	60°C +

APPLICATION

Enviro HP1200 must be sprayed using high pressure plural component dispensing equipment. Drums of components should be pre-heated to at least 25°C prior to mixing or dispensing. Mix part B thoroughly with a mechanical power mixer before use. Product is to be applied at temperatures no less than 0°C or no more than 35°C. Please see Coverage Rate table for further details. Minimum application requirements set forth by the NCC and relevant Australian Standards should be followed when applying Envirosystems products.

RECOAT

Recoating should be done no earlier than 5 mins and no later than 3 hours after initial application. Care should be taken when walking over newly installed HP1200 to ensure the membrane is not damaged.

OVERCOATING

Prime over cured Enviro HP1200 with Enviro Prime P2 (sand seeded) or Enviro Epoxy B-LV (sand seeded) prior to overcoating. Enviro HP1200 is an integral component of the Enviro Trafficable Systems and can be overcoated with Enviro 900 and Enviro 800 TC. Please see respective product data sheets for further information.

CLEANING

Cured Enviro HP1200 is difficult to remove chemically. Spillages should be minimized and cleaned up immediately to limit damage. Observe all OH&S and safety data sheets (SDS) information pertaining to safe usage and handling of solvents.

LIMITATIONS

Product must not be applied in rain or if wet weather is imminent. Do not apply to damp or contaminated surfaces or directly over protective coatings. Product must not be used as a or UV stable coating. Use with adequate ventilation.

HEALTH & SAFETY ADVICE

When using Enviro HP1200 always provides adequate ventilation and wear appropriate personal protection equipment (PPE) during use. Avoid contact with skin. Avoid breathing vapours. Wear protective eyewear. If inhalation effects occur, remove to fresh air. If discomfort persists, any breathing difficulties occur or if swallowed, seek medical attention. Refer to Safety Data Sheet (SDS) for full details.

KEEP OUT OF REACH OF CHILDREN

WE ARE HERE TO HELP YOU

It is a good idea to keep a journal of your waterproofing job, whether big or small.

- Record the quantity and description of products used with corresponding batch numbers
- Record dates and times of when you applied products, from start to finish
- Record all relevant SDS

Please do not hesitate to contact us for any questions you may have on **1300 WATERPROOF** (1300 928 377) or via email at:

customerservice@envirosystems.com.au.

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 of 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.

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