

enviro HP 1200 PW

High Performance, Solvent Free,
Sprayed Elastomer Lining Product
For Potable Water



Date: Jan 09

Issue: 3

Description

Enviro HP 1200 PW is a solvent free, 2 component spray applied polyurethane lining product. It is formulated to comply with AS/NZS 4020 (Testing of products for use in contact with drinking water).

Advantages

- 100% Waterproof
- Potable water approved
- Spray Applied
- Excellent Durability
- Excellent substrate adhesion (using suitable primers)
- Very Low VOC Content
- Convenient 1:1 vol/vol mix ratio
- Solvent free
- Seamless application
- Elastomeric
- Fast Curing
- Excellent Abrasion Resistance
- Tough

Uses

To provide a 100% effective waterproof membrane for the following areas:

- Concrete tanks
- Ponds
- Dams
- Storage facilities
- Pipelines
- Retention dams
- Steel tanks

Physical Properties

Enviro HP1200 PW is supplied as a 2 component spray applied lining

- | | | | |
|---|----------------------------------|-------------------------|----------------------------|
| • Colour | Clear/ Pale yellow | • Supply | 120 ltr kit |
| • Water Vapour Permeability – 16 ASTM E 96-95
WVT (mg/cm ³ /day) at 25°C – RH:Water
Method Fisher/Payne Permeability C | | • Shore A Hardness | 90 +/- 3 DIN 53516 |
| • Mix Ratio | 100:92 by weight | • Mix Ratio | 1:1 vol/vol |
| • Pot Life | 12 seconds at 25°C | • Tensile Strength | 13.9 MPa (BS2782 Pt3 320A) |
| • Water vapour transmission (g/m ² /24hr) | 10.1 | • Elongation | 190 % (BS2782 Pt3 320A) |
| • Density | 1.02 g/mm ² DIN 53213 | • DIN Abrasion | 120mm ³ |
| • Adhesion (concrete) | 1.0 MPa DIN 1048 | • Trouser tear strength | 12.7 (kN/m) |
| | | • Tear propagation | 12 kg/m DIN 53515 |
| | | • Colour | White / pale yellow |

Application Directions

Substrate Preparation

The surface must be clean, and free from loose particles, including dust, laitance, grease, coatings, curing compounds, or any other foreign matter. The substrate must be prepared by way of degreasing, grinding or captive shot blasting to provide a surface profile. Apply suitable and approved joint caulking material such as Enviro Seal PUR polyurethane (allow to cure) prior to application of Enviro HP1200 PW.

Priming

Contact Waterproofing Technologies for recommendations for appropriate primers prior to application of Enviro HP1200 PW.

continue on next page >

environmentally responsible technology

Application Directions (cont)

Mixing

Product is mixed at the 1:1 mix ratio (by volume) in heated plural component spray equipment. Both low and high pressure equipment can be used.

Substrates

Enviro HP1200 PW is suitable over the following substrates:

- Concrete (cured for min. 28 days)
- Mild Steel
- Aluminium (pre primed)
- Galvanised Steel

NOTE: Do not apply membrane to any concrete that has received artificial curing compounds.

Estimating Data (Theoretical)

The Consumption of Enviro HP1200 PW will depend upon substrate condition and type. As a guide: One 120 ltr kit of Enviro HP 1200 PW will cover approximately 60-80m² based on achieving an impermeable lining of minimum 1.5mm Dry Film Thickness (DFT).

Cure and Recoat Details

Curing rate of this product is dependent on ambient and surface temperatures. As the temperatures increase, the curing rate decreases.

	10 – 15°C	20 – 30°C	30 – 40°C
Hard Coating (minutes)	20	10	6
Full Cure (days)	7	6.5	5
Recoat– minimum (minutes)	<8	<4	<2
Recoat– maximum (hours)	5	3	2

Safety Advice

Enviro HP1200 PW contents are considered non-flammable. Always provide adequate ventilation and wear appropriate Personal Protection Equipment (PPE) during use. Avoid contact with skin. Avoid breathing vapours. Wear protective eyewear. If swallowed, DO NOT induce vomiting, have plenty of water and milk. Seek immediate medical advice. Wash off splashes of material with clean water and soap. If irritation occurs seek medical advice. Refer to MSDS.

KEEP OUT OF REACH OF CHILDREN.



Manufactured by Waterproofing Technologies Pty Ltd

Address: 295 Princes Highway St Peters NSW 2044 Sydney Australia

Telephone: +61 2 8595 8699

Facsimile: +61 2 8595 8660

Web: www.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 general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its 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 Enviro Systems either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Enviro Systems are responsible for carrying out procedures appropriate to a specific application.