

Enviro HP1600

High Performance Spray Polyurea Elastomer



DESCRIPTION

Enviro HP1600 is a two component, spray in place, solvent free, flexible, and 100% solids polyurea elastomer system. Enviro HP1600 is a fast curing, textured surface, multipurpose material designed for commercial and industrial applications requiring high chemical resistance, abrasion resistance, impact protection and sealing of cementitious, metal and wood surfaces at temperatures up to 170°C.

FEATURES

- Fast Curing
- Solvent Free
- UV Stable
- High Chemical Resistance
- Trafficable
- Flexible
- 100% Solids
- Moisture Tolerant
- Excellent Abrasive Resistance

TYPICAL USES

Enviro HP1600 is used to provide a 100% trafficable waterproof, wear and chemical resistant coating in commercial and industrial applications.

- Mining Slurry Pits
- Roof Tops
- Chemical Bund Areas
- Non-Slip Floors
- Bridge Decks
- Sewerage Treatment
- Tanks
- Cut & Covered Tunnels
- Pipes
- Critical Waterproof Areas

PHYSICAL PROPERTIES

Mix Ratio (by volume)	1:1
Mix Time @ 20°C	3 seconds
Gel Time @ 20°C	8 seconds
Cure Time @ 20°C	85% - 1hour 100% - 7 days
Pedestrian Traffic	16 – 24 hours
Hardness (Shore A) AS1683.15.2	95±5
DIN Abrasion (mm ³)	185-190
Tensile Strength (MPa) AS1683.11/ ISO37	16.5
Elongation (%) AS1683.11/ ISO37	185
Tear Strength (angle) (kN/m) AS1683.12/ ISO34-1	65
Trouser Tear Resistance (kN/m)	15
Colour	Grey
Density (kg/m ³) AS1683.4	1057

CHEMICAL RESISTANCE

Material	Resistance
Acetic Acid (10%)	Excellent
Alcohol	Excellent
Automotive Petrol	Good
Automotive Oil	Excellent
Aviation J P Fuel	Excellent
Benzene	Good
Boric Acid	Excellent
Brine Solution	Excellent
Citric Acid (10%)	Excellent
Diesel Fuel	Good



Formic Acid (5%)	Excellent
Hydrochloric Acid (5%)	Excellent
Hydrochloric Acid (45%)	Fair
Hydrogen Peroxide (10%)	Excellent
Lactic Acid (10%)	Fair
Kerosine	Excellent
Linseed Fatty Acid	Excellent
Nitric Acid (10%)	Excellent
Phosphoric Acid (50%)	Excellent

SUBSTRATE PREPARATION

Surfaces must be clean, dry and free from all loose particles including dust, laitance, grease, coatings, curing compounds and any other foreign matter. The substrate must be prepared by way of degreasing, grinding or captive shot blasting to provide an adequate surface profile.

NOTE: Do not apply Enviro HP1600 to any concrete that has received concrete curing compounds.

For further information on substrate preparation or for project specific advice, please consult EnviroSystems.

customerservice@envirosystems.com.au

PRIMING

Primer is not generally required for direct to geofabrics applications. For masonry surfaces, apply Enviro Epoxy B-LV (sand seeded), Enviro Prime P2 or Enviro Prime P5 by brush, roller or spray to prepared substrate as per individual production recommendations. Allow primer to fully cure before proceeding with the application of Enviro HP1600.

NOTE: For further information on applications that may require priming or for project specific advice, please consult EnviroSystems.

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MIXING

Enviro HP1600 should be thoroughly mixed by way of 1:1 mix ratio (by volume) in heated plural component spray equipment such as Graco's EXP-2 or similar.

MACHINE DISPENSING

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

APPLICATION

Enviro HP1600 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.

For further information regarding application of Enviro HP1600 or for project specific advice please consult EnviroSystems.

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COVERAGE

The coverage of Enviro HP1600 is job specific. Please refer to the job specific specification for application rates and DFT required.

Minimum requirements for internal or external applications at 1.5mm DFT.

Minimum application rate is 1.6kg/m².

PACKAGING & COLOURS

Enviro HP1600 is supplied in 43kg kits in Grey.

CLEANING

Cured Enviro HP1600 is difficult to remove chemically and therefore spillages should be minimized and clean up immediately to limit damage.

SHELF LIFE

Enviro HP1600 can be stored in its original sealed containers for 12 months. Both components of Enviro HP1600 should be stored in dry conditions out of direct sunlight. 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. If unsure please contact EnviroSystems for advice.

HEALTH & SAFETY ADVICE

Enviro HP1600 contents are considered non-flammable. Always provide adequate ventilation and wear appropriate Personal Protection Equipment (PPE) during use. Avoid breathing vapours. Avoid contact with skin. If swallowed, DO NOT induce vomiting, give glass of water and seek immediate medical advice.

If contact with skin, wash off splashes of material with clean water and soap. If irritation occurs seek immediate medical advice. Refer to Safety Data Sheet for fill safety and handling procedures.

NOTE: Safety Data Sheets are available upon request by emailing customerservice@envirosystems.com.au



We're here to help you!

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

- Take pictures at all stages of your work, including preparation
- 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

Please do not hesitate to contact us for any questions you may have.

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