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POLYEU – H7

A Liquid Applied Fibreglass Reinforced Water Based Urethane

Description:

POLYEU H 7 is a liquid applied waterproofing and weatherproofing, UV resistant, fibreglass reinforced waterproofing membrane system.

POLYEU H 7 is a single component, ready mixed, heavy bodied, water based polyurethane (CSBR) waterproofing membrane with the addition of fine sized fibreglass for additional strength, whilst allowing the membrane to remain highly flexible.

Its high viscosity allows for easy application in a minimum of two coats for normal usage. It is ideal for use in bathrooms, balconies, retaining walls, roofs, planter boxes, drive ways, water tanks.

For internal & external use and areas subjected to high pedestrian/vehicle traffic movement. Use with joint reinforcement (tape) across T&G or butt jointed timber/plywood.

A highly versatile product which has many uses.

CSIRO approved, which allows it to be used on Local, State & Federal Government projects.

POLYEU H 7, may be tiled or left exposed. The product does not bleed through grouting etc. (Once cured can be tiled over using cement based or two-part water based adhesive).

Recommended Usage:

It is a ready-for-use single component flexible membrane suitable for sealing old and new surfaces and can be applied over virtually all fully supported surfaces including concrete, waterproof plywood, compressed fibre cement, metal, built up roofing and even existing membranes.

It is suitable for use on Bathrooms, decks, roofs, basements, car parks, wet areas, planter boxes, retaining walls, balconies, tennis courts, water tanks, ponds, also it is Compatible to ECO Block system (Polystyrene) etc. *POLYEU H 7* is suitable for the most extreme weather conditions and temperatures. It is available in 10, 15 and 20 Litre pails white or assorted colours.

For enhanced protection against dirt or traffic grime, and ease of cleaning, an optional coat of *FORMSTAR CLEAR GLAZE TOP COAT* can be applied.

Packaging:

20, 15 and 10 litre pails

Site Considerations: It is considered good design practice, that the surface be constructed with a slope of minimum 1:60 (1 degree) to facilitate water run off and prevent areas of prolonged water coverage.

POLYEU H 7 requires no special treatment and no detailing at the edges, upstands, sumps and movement cracks joints up to 2mm.

SPECIFICATION DATA:

Physical Properties

Durability	2000 hours - no visible change	QUV Weatherometer
Flexibility	Passes 3mm Mandrel	ASTM D 1737
Tensile Strength	211 Newton	ASTM D 2370 @ 30
Thickness of film:	1.2mm to 1.5mm (2 coats dry film)	
Moisture		
Transfer rate:	Method-ASTM E-96-80(dry) 88.2 Perms 48 hours	
Flame resistance:	Spread of Flame Index - Zero	ISO/DIS 1182
Coverage Rate:	1 st Coat 2.0 Sq M/L , 2 nd Coat, 3.0 Sq M / L	
Dry Time @20C:	5 hours	

Chemical Resistance

Resistant to:	Dilute mineral and organic acids	ASTM D 2571
	Mineral and vegetable oils	
	Neutral detergent solutions	
	Gasoline	
	Ethyl Alcohol	
	Dilute Alkali	
	Sugar solution	
	Coffee, Tea and Urine	
Not resistant to:	Strong Mineral Acids	
	Ketone and Ester Solvent	

UV resistance:	Excellent
Weather resistance:	Excellent
Classification:	Single component, heavy bodied polyurethane (CSBR)
Solids:	67%
Colour:	Green, White, Grey, Blue & Black.

Finish:	Matt/Semi Gloss
Solvent:	Water
Shelf Life:	2 years in an unopened container, kept in cool dry storage
Application:	Brush or roller

Surface Preparation: Ensure all surface preparations and repairs are carried out, and that the surface is clean and dry, free from dust, oil, grease, flaking paint and laitance.
Do not work on wet surfaces or if there is a likelihood of impending rain.
New concrete has to be cured for a minimum of 28 days before the commencement of any work
 All expansion joints should be filled with an elastomeric sealant, PU type material.

Application:	
Prime coat:	Either using Formseal S.B (Solvent Based) or Formseal W.B (Water Based) Sealer/Primer at a rate of 6-10 Sq M per litre. Allow around 1 hour drying time, before applying first coat of membrane.
Body coat:	Apply the first coat with a brush or roller (preferable) at a rate of 1.0 square meter per litre. Allow a minimum of 3-6 hours drying time (Depending upon conditions) before applying the second coat. Apply second coat at right angle direction to the first coat. Apply the second coat at a rate of 1.0 square meters per litre Allow to dry for a minimum of 4-8 hours.

Drying:	Depending upon weather conditions, POLYEU H 7 dries in 4-8 hours (If fibreglass matting is used, more time is needed for drying).
Curing:	Depending upon weather conditions, POLYEU H 7 cures in around 24 hours,
Clean up:	Clean all tools and equipment before it dries with water and household detergent

Standards Applicable:	There are no specific standards applicable to the POLYEU H 7 as at the date of printing. However rigorous testing physical properties has been undertaken using National Standards for individual tests A technical opinion from the Australian Building Systems Appraisal Council Limited is available.
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Warranty:	A Process Performance Warranty for up to fifteen (15) years and a correlated Workmanship Warranty will be provided by the Applicator at the completion of their contract, after final payment is claimed.
Health and Safety:	POLYEU H 7 is relatively non-toxic and it is non-flammable. Spills can be removed by water or by using sand to absorb the product. Once dry, the product no longer dissolves in water. Remove from skin with water before membrane dries. In confined areas provide adequate ventilation.

Technical Advice:	Technical advice or service suitability of material for specific application and end use requirements is available from HITCHINS RESEARCH LABS Pty Ltd
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