

WP-1

TRAFFICABLE WATERPROOFING
“THE GREY ONE”



WP-1 Trafficable is a waterborne UV Stable elastomeric waterproofing membrane

DESCRIPTION

WP-1 Trafficable “The Grey One” is a waterborne elastomeric waterproofing membrane with outstanding long-term UV stability. WP-1 Trafficable is an effective anti-carbonation membrane for concrete as it exceeds the “Klopfer Criterion” requirements of Sd < 4m and R > 50m.

FEATURES & BENEFITS

- ◇ Seamless waterproofing system – liquid applied with no joints or laps, not allowing ingress of water or contaminants.
- ◇ Elastomeric, even after weathering.
- ◇ Anti-carbonation protection of concrete.
- ◇ Tough – High tensile strength and hardness.
- ◇ Allows substrate to breathe.
- ◇ Fungal and algal resistant – an extended life and clean appearance in high humidity environments.
- ◇ Suitable for metal and steel roofing.
- ◇ Fire and flame resistive.
- ◇ Chemical attack resistive
- ◇ Decorative – available in a wide range of durable colours.
- ◇ Excellent resistance to dirt pick up.

- ◇ Very high adhesive strength – no primer required on most surfaces.
- ◇ High build – bridges fine cracks.
- ◇ Resistive to impact and light traffic damage.
- ◇ Weatherproof and lightfast
- ◇ Reflective properties aid in reducing internal temperatures by up to 20°C. Aids in reduction of CO2 emissions.
- ◇ Energy and cost efficient.
- ◇ Resistant to chemical attack.
- ◇ Very high adhesive strength – no primer required on most surfaces.
- ◇ Weatherproof and lightfast.
- ◇ Fungal and algal resistant in humidity environments.
- ◇ Excellent dirt pick up resistance.
- ◇ Tough – high tensile strength and hardness.
- ◇ Low VOC

SUITABLE FOR

- ◇ Concrete structures
- ◇ Concrete roof areas
- ◇ Internal walls
- ◇ External walls – concrete, concrete block, brick and other masonry surfaces
- ◇ Suitable for metal and steel roofing

Technical Data			
Number of Coats: Spreading Rate Per Coat: Wet Film Per Coat: Recoat (@25oC):	Refer Specifications Refer Specifications Refer Specifications 4-6 Hours	Curing time: Colour: Thinner: Shelf Life:	28 days Pink Water 12 months
Properties	Test Method	Test Results	
VOC	ASTM D-2369	14g/L (Low)	
Tensile Strength	ASTM 412	20N or 3.66MPa	
Elongation	ASTM D412	140%	
Durometer Hardness	ASTM D2240	Durometer “A” Value 78.5	
Direct Tension Adhesion Strength	ASTM D4541	2.0N.mm2 or 2.0 MPa	
Mandrel Bend Test	AS1580.402 ISO 1519	Pass-no cracking, flaking or peeling observed	
Technical Data			
Water Vapour Transmission	ASTM E96	35.6g/m ² /24hr	
Water Permeability	ASTM E96	1.47 x 10 ⁻⁷ g / Pasm ²	
Moisture Vapour Diffusion Coefficient Moisture Vapour Diffusion Resistance Coefficient Moisture Vapour Equivalent Air Layer Thickness (Sd)	ASTM E96	4.3 x 10 ⁻⁵ cm ² Sec-1 5920 1.21m	
Oxygen Diffusion Coefficient Carbon Dioxide Diffusion Coefficient Diffusion Resistance Coefficient Equivalent Air Layer Thickness (R) Equivalent Thickness of Concrete (Sc)	Taywood in-house test method (as nominated) (Gas Dispersion Test)	2.9 x 10 ⁻⁷ cm ² sec-1 4.9 x 10 ⁻⁷ cm ² sec-1 305800 64m 16cm	

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Technical Data		
Chemical Resistance 10% W/V Sodium Hydroxide 10% W/V Nitric Acid	Taywood in-house test method (as nominated)	1 Hour – Temporary effect 3 Hours – Temporary effect 1 Hour – No Visible change 3 Hours – No Visible change
Fire Propagation Surface Spread of Flame	B.S 476: Part 6 B.S 476: Part 7	3.3 Fire Propagation Index Class 1
Resistance to Artificial Weathering 1000 Hours 4000 Hours	AS.NZ 1580.483.2	Satisfactory – no defects Satisfactory – no defects
Biological Resistance Fungal 1 month (accelerated) Algal 6 months (accelerated)	Thor In-house Accelerated Testing	Excellent Film Fungal Protection Excellent Film Algal Protection
Abrasion Resistance	ASTM D1242	0.18mm
Temperature Resistance 5°C 25°C 85°C	ASTME96 ASTME96 ASTME96	32g / m2/ 24hrs 35g / m2/ 24hrs 41g / m2/ 24hrs

Specifications			
Waterproofing reinforced trafficable 1st Coat: WP-1 Trafficable Whilst wet embed ACT Mat-1 2nd Coat: WP-1 Trafficable	Spreading Rate 1.6m ² / L 1.6m ² / L	W.F.T 625 microns 625 microns	D.F.T 300 microns 40 microns 300 microns 640 microns
Anti-carbonation weatherproof membrane 1st Coat: WP-1 Trafficable 2nd Coat: WP-1 Trafficable	Spreading Rate 4.8m ² / L 4.8m ² / L	W.F.T 210 210	D.F.T 100 microns 100 microns 200 microns

COVERAGE

15kg bucket will cover approximately 19m² after two (2) coats

SUBSTRATE PREPARATION AND APPLICATION:

- ◇ Surface should be clean, structurally sound & contaminant free. If necessary, appropriate repairs should be carried out.
- ◇ Exposed reinforcing bars are to be cleaned of rust prior to repair. If cementitious products are used they should be cured for a minimum of 7 days, however 28 days is preferable.
Surfaces should be dry but reasonable dampness without visible moisture is acceptable.
Remove contaminants such as grease and oil with detergent and water. Areas showing fungal or algal growth should be treated with a biocidal wash and allowed to dry. Remove dust, loose dirt, flaking paint, rust etc as appropriate by high pressure water jetting, abrasive blasting or mechanical/hand wire brushing.
- ◇ Porous (but sound) surfaces can be primed with a thinned coat of WP-1 Trafficable (a mix of 2 parts WP-1 Trafficable to 1 part of clean fresh water is recommended) applied by spray, roller or brush.
- ◇ Painted areas should be checked for soundness. Remove any loose and flaky paint.
- ◇ Cracks or joints displaying non-active cracks wider than a hairline should be first filled with proprietary filler. All active cracks and expansion or construction joints are to be cleaned to accommodate a backing rod combined with proprietary elastomeric filler.
- ◇ WP-1 Trafficable can be applied using roller, brush or airless spray.
- ◇ Adhere ACT Mat-1 with its bond-breaker section over the treated movement area. Fold back unadhered fabric on both sides. ACT WP-1 Trafficable to the surface and while it is wet embed fabric. When dry, apply WP-1 Trafficable over treated sections. Allow to dry before application of membrane.
- ◇ Pre-existing sealants / mastic – in general WP-1 Trafficable can be directly applied to most mastics, however, non-paintable silicones are not suitable. If it is silicone or it cannot be identified, apply ACT Mat-1 over the area as detailed above, before treating with WP-1 Trafficable.
- ◇ Upright angles and protrusions – sharp corners formed by vertical and horizontal junctions such as parapets and pipes, etc., should be detailed in a similar fashion with ACT Mat-1 as detailed above.
- ◇ The ends of vertical membranes should be protected to avoid ingress of water behind membrane. On parapet walls, if possible, the membranes should be carried to the top and slightly down on the other side this totally eliminating water ingress. On high vertical walls or protrusions the horizontal membrane should be turned up approximately 200mm and applied into a reglet (5mm wide and 10mm cut) and / or covered with a down-turned protective flashing.

DRYING

Allow 1st coat to cure for minimum 4 hours at 25C degrees. 2nd coat will require 24 hours to cure prior to commencement of tiling or screeding. Cooler temperatures will prolong curing times. Ensure there is airflow in area to assist curing.

SHELF LIFE

In unopened original packaging for up to 12 months when stored in a cool, dry environment and out of direct sunlight.

SAFETY DIRECTIONS

ACT Australia supports best practice in material handling. Provide good ventilation- open doors and windows and use circulating fans. Appropriate gloves, masks, safety glasses and protective clothing should be worn. If product comes in contact with skin it can be washed off with water before drying. If swallowed drink plenty of drinkable water and seek medical advice, do not induce vomiting. In case of contact with the eyes, rinse with clean water or eye wash solution and seek medical advice.

LIMITATIONS

- ◇ Do not apply if the temperature is below 10°C or relative humidity is above 85% or if rain is imminent
- ◇ Do not allow ponding to occur between coats or before system is fully cured (normally 7 days after application of final coat). Water should be swept off or mopped during curing period to avoid damage.

DISCLAIMER

Any advice, recommendation, information, assistance or service provided by ACT AUSTRALIA™ in relation to its products or their use is given in good faith, however is provided without responsibility or liability. Customers need to undertake their own assessment to determine the suitability of a product for the particular use intended. As the performance of any product is subject to a wide variety of different surface types as well as environmental and surface-specific conditions, it is essential that a sample of the product be applied to the intended area of use to ensure it is acceptable in appearance and finish and that it performs on the specific surface.