

## Trafficable Waterproofing “The Grey One”

### 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  $S_d < 4m$  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 & hardness
- ◊ Allows substrate to breathe
- ◊ Fungal and algal resistant
- ◊ Extended life and clean appearance in high humidity environments
- ◊ Suitable for metal and steel roofing
- ◊ Fire and flame resistive
- ◊ Chemical attack resistive
- ◊ 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 & lightfast
- ◊ Reflective properties aid in reducing internal temperatures by up to 20°C. Aids in reduction of CO2 emissions.
- ◊ Energy & cost efficient
- ◊ Low VOC

#### SUITABLE FOR

- ◊ Concrete structures
- ◊ Concrete roof areas
- ◊ Internal Walls
- ◊ External walls – concrete, concrete block, brick and other masonry surfaces
- ◊ Metal & Steel Roofing

#### 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 in temperatures below 10°C or relative humidity is above 85%
- ◊ Do not apply if rain is imminent
- ◊ Do not apply over non paintable sealants
- ◊ 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.
- ◊ If in doubt, contact **ACT Australia Technical Services** for further information and advice.

#### SUBSTRATE PREPARATION & APPLICATION

All substrates must be clean, dry, free from dust, wax, oil, grease, curing compounds, paints (inc overspray), coatings and all contaminants which may cause adhesion failure. If necessary, appropriate repairs should be carried out to substrate before application. Substrates showing signs of fungal or algal growth should be treated with a biocidal wash and allowed to dry. If substrate is cementitious, it must be cured for minimum 28 days & 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). All cracks greater than a hairline are required to be filled with **ACT MS-PU** prior to application. All expansion or construction joints are to be cleaned to accommodate a backing rod combined with **ACT MS-PU**.

Prior to application of first coat, thoroughly stir **WP-1 Trafficable** & apply using roller, brush or airless spray. Embed **WP-1 Bandage** to the surface as required prior to the first coat drying. Once the first coat is dry, apply second coat of **WP-1 Trafficable** ensuring WP-1 Bandage is completely covered by membrane

#### CLEAN UP

**WP-1 Trafficable** can be removed from the surface using a damp cloth while the product is wet. Tools and equipment can be scrubbed clean with warm water prior to drying.

#### DRYING

Allow 1<sup>st</sup> coat to cure for minimum 4 hours at 25°C.

2<sup>nd</sup> coat will require 24 hours to cure.

Cooler temperatures will prolong curing times. Ensure there is airflow in area to assist.

#### COVERAGE

A 12L bucket of **WP-1 Trafficable** will cover approximately 19m<sup>2</sup> after two (2) coats

#### PACKAGING

**WP-1 Trafficable** is available in 12L Drums.

#### SHELF LIFE

In unopened original packaging for up to 12 months when stored in a cool, dry environment off the floor.

Technical Data			
Number of coats:	See Specs	Curing time:	7 days
Spreading rate per coat:	See Specs	Colour:	Grey
Wet film per coat:	See Specs	Thinner:	Water
Recoat (@25°C.)	4-6 hours	Self-life:	12 Months
Properties	Test Method	Test Results	
Volatile Organic Compound (VOC) Content	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	
Water Vapour Transmission	ASTM E96	35.6g/m <sup>2</sup> /24hr	
Water Permeability	ASTM E96	1.47 x 10 <sup>-7</sup> g / Pasm2	
-Moisture Vapour Diffusion Coefficient	ASTM E96	4.3 x 10 <sup>-5</sup> cm2 Sec-1	
-Moisture Vapour Diffusion Resistance Coefficient		5920	
-Moisture Vapour Equivalent Air Layer Thickness (Sd)		1.21m	
-Oxygen Diffusion Coefficient	Taywood in-house test method (as nominated) (Gas Dispersion Test)	2.9 x 10 <sup>-7</sup> cm2 sec-1	
-Carbon Dioxide Diffusion Coefficient		4.9 x 10 <sup>-7</sup> cm2 sec-1	
-Diffusion Resistance Coefficient		305800	
-Equivalent Air Layer Thickness (R)		64m	
-Equivalent Thickness of Concrete (Sc)		16cm	
Chemical Resistance	Taywood in-house test method (As nominated)	1 Hr - Temporary effect 3 Hr - Temporary effect	
10% W/V Sodium Hydroxide 10% W/V Nitric Acid		1Hr - No Visible change 3Hr - No Visible change	
Fire Propagation	B.S 476: Pt 6	3.3 Fire Propagation Index	
Surface Spread of Flame	B.S 476: Pt 7	Class 1	
Resistance to Artificial Weathering	AS.NZ 1580.483.2	Satisfactory-No defects	
1000 Hours 4000 Hours		Satisfactory-No defects	
Biological Resistance	Thor In-house Accelerated Testing	Excellent Film Fungal Protection	
Fungal 1 month (accelerated) Algal 6 months (accelerated)		Excellent Film Algal Protection	
Abrasion Resistance	ASTM D1242	0.18mm	
Temperature Resistance	ASTME96	32g / m2/ 24hrs	
5°C		35g / m2/ 24hrs	
25°C 85°C		41g / m2/ 24hrs	

Specifications			
<b>Waterproofing reinforced trafficable</b>	Spreading rate 1.6m2/L	W.F.T 625 Microns	D.F,T 300 microns 40 microns
1st Coat: <b>WP-1 Trafficable</b> Whilst wet embed <b>ACT WP-1 Bandage</b>			
2nd Coat: <b>WP-1 Trafficable</b>	1.6m2/L	625 Microns	300 microns 640 microns
<b>Anti-carbonation weatherproof membrane</b>	Spreading rate 4.8m2/L	W.F.T 210	D.F,T 100 microns
1st Coat: <b>WP-1 Trafficable</b>			
2nd Coat: <b>WP-1 Trafficable</b>	4.8m2/L	210	100 microns 200 microns

Head Office  
65 Dunn Road  
Rocklea QLD 4016

sales@actaus.com  
info@actaus.com

1300 794 321  
actaus.com