

Technical Information Sheet  
Article No. 9002

# Solutan PU Aluminium

Solar reflective PUR membrane for roofs

## Advantages

- Forms an extremely economic waterproof, seamless membrane.
- Liquid applied, permanently flexible tough 'skin'
- Tough, long life membrane which can be reinforced with fabric.
- Easy application by roller or brush.
- Excellent adhesion to most roof substrates.
- Controlled film thickness when reinforced.
- UV stable through aluminium flake content.

## Description

PU Aluminium is part of the Remmers series of liquid roof membranes. These cure to form seamless, durable, long lasting, weatherproof membranes for all types of flat and pitched roofs.

PU Aluminium is a one component flexible elastic membrane based on modified polyurethane resins.

PU Aluminium has excellent adhesion to many common roofing substrates and can be reinforced by incorporating a layer of needle punched PE fleece (article 9015).

## Characteristic data of the product

Viscosity:	Thixotropic
SG:	1.2 mixed
Total Solids:	95%
Elongation at break:	450%
Application Temperatures:	5-40°C
Drying Time per coat:	12 hours @ 20°C, 50% RH
Full cure:	7 days
UV resistance:	Excellent
Pot life:	Up to several days
Colour:	Silver
Curing:	Moisture cure

## Systems

PU Aluminium Systems are used to provide long life weatherproofing solutions to roof refurbishment and are particularly suited for flat roofs.

Many systems have the PE fleece incorporated into a layer of PU Aluminium, which is then totally encapsulated with more material whilst the base layer is still fresh.

### Typical system- un-reinforced;

- PU Primer @0.15 ltr/m<sup>2</sup>
- PU Aluminium @0.5-1ltr/m<sup>2</sup>

Surfaces with chippings will approximately halve the coverage rates (double the amount required)

### Typical system- reinforced;

- PU Primer @0.15 ltr/m<sup>2</sup>

- PU Aluminium @2-3 ltr/m<sup>2</sup> incorporating PE Fleece applied in one operation to fully encapsulate the fleece.

- PU Aluminium @0.5ltr/m<sup>2</sup> to seal the surface fully.

Second coats should be applied within 24 hours. Where this inter-coat period is longer than 24 hours, then the 1<sup>st</sup> coat of the previously applied PU Aluminium should be re-primed with PU Primer prior to applying the 2<sup>nd</sup> coat of PU Aluminium.

## Surface Preparation

- All surfaces must be clean, generally dry and free from all loose debris, laitance and other surface contamination.

- Repairs to cracks, holes and other defects must be carried out prior to coating.
- Fungus, algae, mould or lichens must be removed and the area treated with Impregnation BFA.
- Laitance should be removed by means of grit-blasting, wire brushing (small or difficult areas) or chemical treatment (Remmers Combi WR) and power washing.

### Priming

Concrete and other mineral surfaces have to be laitance free and at least 28 days old.

On most surfaces PU Primer should be used as a primer. This has excellent adhesion to many bitumen based roofing materials including roofing asphalt, slates, tiles, asbestos, brick, glass, metals.

Generally, and especially if overlaying synthetic materials such as EPDM, olefin or PVC, adhesion testing is required.

If the quality and porosity of the substrate is questionable the exact priming system should be selected according to trials.

For advice, please contact our Remmers Technical Service Department.

The statements above are compiled from our field of production and according to the latest technological developments and application techniques.

Since application and working are beyond our control, no liability of the producer can be derived from the contents of this information sheet. Any statements made beyond the contents of this information must be confirmed in writing by the producer.

In all cases, our general conditions of sale are valid. With the publication of this Technical Information Sheet all previous editions are no longer valid.

### Application

Surface skin on material can be cut away and the fresh material below can be used.

Apply by roller, trowel, brush or airless spray such as Graco King 63:1. Use correct PPE.

Use 100psi, 60cfm min flow.  
21-25 thou tip size  
50° angle, 3/8" hoses.

Colours available: Aluminium

### Health and Safety

Before using this product please ensure that you have been supplied with and have read carefully the information on the MSDS for the products.

The recommendations made in our MSDS for this product should be followed at all times.

### Storage

Store in cool place, indoors and avoid unnecessary opening of tins. Once opened product will start to cure and a skin will form. It is possible to remove the skin and use the remaining material.

Shelf life in unopened tins – 6 months minimum

For technical support or information on any waterproofing problems, please contact our Technical Service Department.



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