

# PU SCATTERCOAT SYSTEM

---

## DESCRIPTION

PU Scattercoat is a two component solvent free urethane system which when used with, for example, 2-4mm Bauxite or similar aggregate to give a High Friction Anti-Skid Surface, meets the requirements of the BBA system: approval number is 01/H049.

Urethanes cure rapidly especially at low temperatures allowing earlier opening of sites to traffic. This is a significant advantage when application is made at night when temperatures are low.

## APPLICATIONS

Typical surfaces include roads, pedestrian crossings, cycle paths, bridges, walkways, stairs, car park decks, ramps, flooring, airport runways, etc.

The main product advantages are:

- ~ Rapid Setting . ability to increase the product speed.
- ~ Excellent fuel and chemical resistance
- ~ Solvent free . nonflammable.
- ~ Anti-skid surfaces with high SRV $\phi$
- ~ Waterproofing for substrate protection
- ~ High Thermal Tolerance (-20<sup>0</sup>C to +120<sup>0</sup>C)

## SURFACE PREPARATION

### Bituminous Surfaces

The road surface should have a texture depth of between 0.5mm and 2.0 mm as determined by the sand patch test.

All imperfections in the road surface should be repaired prior to laying the product.

The surface to be treated must be clean, free from frost, ice and road salt. The surface should also be sound, dry and free from dust and any loose material. Any visible oil should be removed with a detergent solution, flushed with water and the surface allowed to dry.

Other methods of cleaning the road include grit blasting, high pressure jet washing, low pressure water/abrasive cleaning scarifying and scabbling. Dust and loose surface material can be removed by brushing or treated with hot compressed air. This will also remove any surface moisture.

Any areas which are not to be treated are to be masked with a suitable tape.

### Concrete and timber

Concrete is to be hot compressed air blasted then primed with primer, this allowed to cure for a minimum of 2 hours and a maximum of 12 hours before applying the finish coating.

On timber, the surface should be primed with primer and conditioned as above.

### Steel

It is to be shot blasted to and primed and allowed to cure 1-2 hours minimum, maximum 12 hours before finish coating.

# PU SCATTERCOAT SYSTEM

## MIXING AND APPLICATION

Add 1 part by weight of PU Scattercoat Part B (curing agent) to 2.15 part by weight of PU Scattercoat Part A (resin) and mix until a mass of uniform colour is obtained. The surface is then coated with the blend within 10 minutes (@ 19°C) at a minimum coverage rate of 1.5 kg per m<sup>2</sup> dependant on surface porosity and then allowed to self-level to give total coverage. The non-slip aggregate (moisture content less than 0.4%) is then scattered over the resin within 5 minutes (@ 19°C) excess aggregate can be removed after 2 hours. The site can be reopened to traffic after 4 hours depending on ambient temperature or until the binder is hard to the touch.

An Accelerator can be supplied for addition to the PU Scattercoat System  
Accelerator should be added to reduce the pot life by half. A syringe or measuring pot should be used to measure quantity.

DO NOT USE IN TEMPERATURES BELOW 5<sup>0</sup> C

In some cases, particularly low temperatures, accelerator may need to be added to reduce the cure time.

Accelerator Addition Level	Approximate Cure Time at 20°C (min)
0% Accelerator	20
38cc Accelerator	10
76cc Accelerator	5

## TYPICAL SPECIFICATION

	PU Scattercoat System Part A Resin	PU Scattercoat System Part B Hardener
Colour:	Buff	Brown Liquid
Density:	0.960 g/cm <sup>3</sup>	1.236 g/cm <sup>3</sup>
Solids:	100%	100%
Mixing Ratio	2.15	1
Viscosity @ 23 <sup>0</sup> C:	4,000 ± 600 mPa.s	300 ± 75 mPa.s
Mix Viscosity:	1,600 ± 400 mPa.s	
Pot life:	20 ± 3 minutes at 19°C	

# PU SCATTERCOAT SYSTEM

## POLYMER TECHNICAL SPECIFICATION

Parameters	Range	Standard
Binder Tensile Strength (28 Days)	>16 N/mm <sup>2</sup>	BS2782 part 3 methods 320A-320F
Binder Elongation (28 Days)	>100%	BS2782 part 3 methods 320A-320F
Binder Hardness (48 hrs)	>90 (Shore A)	LPU STM 9
SRV	Initial SRV>100 After 100,000 wheel passes approximately 85	LPU STM 80

## STORAGE

Store in unopened original containers.

PU Scattercoat System Part A and Part B will have a shelf life of one year.

Store between +5 and +25°C.

Once opened, containers of PU Scattercoat System Part B should be used within 14 days.

## HEALTH & SAFETY

PU Scattercoat System Part A (Resin) is not classified as a dangerous substance, however, the wearing of goggles and gloves is to be recommended.

PU Scattercoat System Part B (Hardener) contains a non-volatile isocyanate. Avoid prolonged contact with skin. In cases on contact with eyes, flush out with excess water and seek medical attention. Wear goggles.

Before use, ensure that you have read the relevant Health & Safety Data Sheets for this product.

This leaflet is provided for general guidance only.

All recommendations and suggestions are made in good faith but without guarantee and are subject to the Company's terms and conditions.

ABL Stevens Resin & Glass  
Unit 4, Millbuck Way,  
Sandbach,  
Cheshire.  
CW11 3HT

Tel/Fax 01270 529111  
e: [enquiries@resin-supplies.co.uk](mailto:enquiries@resin-supplies.co.uk)  
w: [www.resin-supplies.co.uk](http://www.resin-supplies.co.uk)