

# DURAGRIP PU

## POLYURETHANE RESIN BASED HIGH FRICTION SURFACING SYSTEM

Duragrip PU is a 2 component polyurethane resin based high friction surfacing system. The system has been formulated to produce a coating for bonding aggregate to steel, asphalt and concrete for anti-skid, decorative and surface protection purposes. Duragrip PU is especially suitable for the coating of ship decks and bridges due to its flexibility and excellent adhesion to steel.

### KEY PROPERTIES:

- Convenient mix ratio 3:1 by weight
- Resistant to oils and solvent spillages
- Excellent physical properties



### NOTE:

New asphalt should be left for a minimum of four weeks, depending upon vehicle traffic. This is necessary to allow any volatile oils in the asphalt to oxidise. Duragrip may be applied to concrete surfaces with a suitable primer.

### APPLICATIONS:

- Junctions
- Traffic signals
- Roundabouts
- Sharp bends
- Feeder and exit lanes
- Accident "black spots"
- Pedestrian crossings
- Bridge decks
- Ship decks

### PHYSICAL PROPERTIES

Form	Polyurethane Resin
Colour	Various
Specific Gravity	1.2
Viscosity	3000 - 5000 cps
Extension	80% (DIN53455)
Tensile Strength @ 23°C	11 N/mm <sup>2</sup> (DIN53455)
Hardness	60 shore D (DIN53455)
Thermal Conductivity	0.25 Watt/m.k (DIN53455)
Tear Resistance	50 KN/m (DIN53455)
Abrasion Resistance	18 mg (DIN53455)
Coverage rate	- Resin - Aggregate
	1.4 - 2.2 kg/m <sup>2</sup> 6 - 10 kg/m <sup>2</sup>

## ADHESION

Iron	20 N/mm <sup>2</sup>
Aluminium	12 N/mm <sup>2</sup>
Concrete	6 N/mm <sup>2</sup>
GRP	12 N/mm <sup>2</sup>

## IMPORTANT NOTES:

Packed in various size containers, shelf life approx. 3 months, protect from sub-zero temperatures.

## CHEMICAL RESISTANCE

% weight change with time when immersed (resin)

	3 Days	60 Days	180 Days
Fuel Oil	0	1	3
Petrol	18	34	35
White Spirit	1	3	9
10% Nitric	0	1	2
<b>Acid</b>			
Ethanoic	0	1	2
Sulphuric	0	0	1
<b>Alkaline</b>			
Potassium	0	0	0
<b>Hydroxide</b>			
Water	1	1	1
Ethanol 10%	1	1	1
Ethanol 100%	4	11	20

**Disclaimer:** All products should be used in accordance with the manufacturer's instructions. No responsibility can be taken by the manufacturer where conditions of use are beyond our control. Materials are sold only on the basis of conforming to specification, but without warranty expressed or implied in law or in fact of merchantability or fitness for a particular purpose and upon the condition that purchasers make their own tests to determine the suitability of such products for their particular purpose. Issue no: 4 – 27.1.21

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