

ENDURAGRIP PU

DESCRIPTION

Enduragrip PU is a rapid cure, 100% solids, solvent free, high build, semi-flexible polyurethane binder for use with high PSV aggregates to provide high friction surfaces on asphalt surfaces. Enduragrip PU is also suited for use with coloured aggregate dressings to provide a durable, industrial or decorative trafficable surface with excellent skid resistance in both wet and dry conditions.



COLOUR

Resin: Translucent cream.

Hardener: Dark brown.

Can be pigmented with polyurethane tinters or powder oxides.

SYSTEM PROPERTIES

Binder Solids Content	100%	
Theoretical Coverage	Binder	1.6-1.8 kg/m ²
	Aggregate (1-3mm)	6-7 kg/m ²
Mixing Ratio	3:1 by weight (Part B:Part A)	
Pot Life at 25°C	20 to 25 minutes	
Initial Gel Time at 25°C	30-40 minutes	
Setting Time at 25°C	Hard set:	Full cure:
	4 hours	5 days

SURFACE PREPARATION

All surfaces should be prepared in accordance with the Surface Preparation Data sheet prior to application of this product.

APPLICATION PROCEDURE

Parts A and B should be proportioned in the correct ratios in volumes that are suitable for the contract being undertaken. The hardener (Part A) should be added to the resin base (Part B) using a slow speed, high torque drill with mixing paddle for at least 3 minutes to obtain a

homogenous mix. The mixed the resin and hardener binder should be immediately applied and spread evenly using a serrated squeegee or notched trowel.

The mixed product should be allowed to level and then should be dressed to excess using the chosen aggregate. The wet binder should be broadcast with the aggregate within 10 minutes of application. The aggregate should be broadcast vertically, allowing the aggregate to "fall" onto the binder to avoid any potential lumps in the finished surface.

Steep gradients may require the addition of a thixotrope and the binder should be left open as long as possible prior to casting the aggregate. When cured sufficiently (time dependant on substrate and ambient temperature), the excess aggregate must be removed.

COMPONENT PROPERTIES

	Part A	Part B
Appearance	Dark brown liquid	Cream liquid
Viscosity-RVT at 25°C	200 cps	3,200 cps
Specific Gravity at 25°C	1.22 – 1.24	1.05 – 1.07



PACKAGING

18 kg kit

STORAGE

In sealed containers at 5-30°C

SHELF LIFE

12 months minimum

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CURED PROPERTIES

Shore Hardness	DIN 53505	60+/-5 D
Tensile Strength	DIN 53455	13 -14 N/mm2
Young's modulus from tensile test	DIN 53455	65-70N/mm2
Elongation	DIN 53455	60-65%
Adhesion to steel Pull test method	DIN 53232	26N/mm2
Tear propagation test acc to Graves	DIN 53515	35 KN/m
Taber Abrasion resistance (CS 10/1000rpm/1000g) In mg	DIN 53754	75

HEALTH AND SAFETY

Before using this product refer to the Material Safety Data Sheets.

ADDITIONAL INFORMATION

A catalysed version is available for use in temperatures below 15C.

Should a clear sealer be required, please discuss with a PGL technical adviser.



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