

Technical Data Sheet Art. No. 26028220

PUR Grip 100

Flexible PUR Bonding resin

Three component, liquid polyurethane system formulated for decorative surfacing and blinding applications.

Range of use

PUR Grip 100 is an economic filled polyurethane resin binder that is used as an anti-skid system onto various surfaces. It offers a degree of flexibility and can be used inside and out. Application examples:

- Metal bridge decks
- Loading bays
- Pedestrian walkways
- Ramps and car parks
- Footpaths
- Roads and pavements
- Driveways
- Balconies
- Decks and podiums

Property profile

PUR Grip 100 is a three-component, liquid, polyurethane system specially formulated for bonding decorative aggregates to various substrates.

PUR Grip 100 passes the Highways Agency scuffing test to Type 1 and can be used at ambient temperatures from 0°C up to 25°C. When applied correctly PUR Grip 100 is expected to have a lifespan equal to or greater than that of the surface to which it is applied.

Typical Applications

When cured, PUR Grip 100 has excellent adhesion to bituminous, cementitious, wood and metal surfaces and most aggregates. PUR Grip 100 displays outstanding

Characteristic data of the product

	Part A	Part B	Part C
Viscosity @ 25°C (cps)	20000 max	200 max	200 max
Specific Gravity	1.8	1.01	1.21
Colour	Buff	White	Amber
Hardness (Shore D)	65-75		
Compressive strength at first failure (N/mm ²)	20		
Compressive strength at 40% compression (N/mm ²)	45		
Deflection at failure (%)	10		
Compressed cylinder (edge) break (N/mm ²)	6		
Compressed cylinder (edge) crack propagation (N/mm ²)	6		
Compressed cylinder (edge) deflection at break (%)	10		

performance on concrete surfaces where no primer is necessary. PUR Grip 100 will adhere to damp or uncured concrete (over 14 days old).

Aggregate

Applied correctly PUR Grip 100 will hold approximately 5-6kg of 3mm aggregate per m² however aggregate excess should be allowed for that recovered after curing.

Packaging & mix ratio

PUR Grip 100 is supplied as a 20kg, three components Kit:

- Part A – 14.2kg
- Part B – 2.7kg
- Part C – 3.1kg

Handling & Storage

Parts A and B should be stored in covered areas between 5-25°C. Part C should be stored in dry conditions between 15°C and 25°C. Under these conditions the shelf life of the products is 6 months for part A and 12 months for parts B and C.

Good standards of industrial hygiene should be observed when handling all components. The use of protective gloves is highly recommended, and users should consider the use of goggles if splashing during mixing is a possibility. The recommendations made in the material safety data sheet for this

product should be observed at all times.

Application

PUR Grip 100 can be used at ambient temperatures from 0°C up to 25°C.

When topping tarmacadam or asphalt, the quality of the substrate should be assessed prior to installation. Consult Remmers technical department when required.

Mixing should take place by stirring the 'A' component for one minute, adding the other components and continuing to stir until mixed. Full mixing should take no more than 60 seconds with the correct equipment. Contact Remmers if you require information on suitable mixing equipment.

The mixed material remains in a mobile, workable state for 20 minutes, once initial curing has occurred do not re-work material. The material then sets into a soft solid.

The material is fit for traffic after 2-8 hours, dependent on the ambient temperature but will increase in properties over a period of a few days. Aggregate should be broadcast into the material in its liquid state within 5-10 minutes of application.

Do not try to spread the material to more than 10m² per kit. Proper wear characteristics are achieved when the aggregate particles are half-buried into the adhesive and this will not occur if there is not enough depth of adhesive. Aggregate gradings will effect consumption rates. Contact Remmers technical department for further information.

Performance

When applied at 1.3 mm and scattered with 6 kg/m² of Chinese bauxite, PUR Grip 100 easily passes the Transport Research Laboratory scuffing test for Type 1

surfacing to Report 127 (appendix G).

Coverage

Coverage rates will vary with different substrates, aggregates and weather conditions however a typical coverage rate of 7.5m² per 20.000kg Kit is to be expected.

Tools

Mixer:

A low speed (300-500rpm), high torque drill & paddle.

Roller:

Long reach, medium pile roller or serrated squeegee.

Shovel:

Suitable for broadcasting aggregate.

Tape:

Scapa tape for edging and protecting areas.

PPE:

Gloves, overalls and goggles.

Safety, ecology, disposal

The condition of this product will determine the required method of disposal. Used containers with fully cured product remaining around the edges or bottom of the container should have the hazard label removed or obscured before disposal as general building waste.

Uncured/Liquid product should be disposed of as hazardous waste.



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.