



## PRODUCT DESCRIPTION

Permagrip PU is a fast curing, three component flexible PU surface treatment for use with high friction aggregates. It combines an anti-skid wearing course and a waterproofing membrane. Permagrip PU is suitable for a variety of substrates where a durable, lightweight anti-skid surface is essential. The Permagrip PU system combines tough but flexible polyurethane resins with high abrasion resistant aggregate. Unlike many systems, Permagrip PU cures very quickly, therefore disruption and downtime is minimal and a surface can be returned to full use in about 3 - 8 hours, depending on temperature and ambient weather conditions. It also cures at low temperatures, has excellent adhesion properties, and does not embrittle with age.

## USES

Permagrip PU is ideally suited for either pedestrian or vehicular traffic, and can be used in a variety of locations and on a range of structures:

- Footbridges
- Road Bridges
- Ro-Ro Linkspans
- Car Parks
- Walkways
- Ramped Steps
- Ship Decks
- Helicopter Decks
- Staircases
- Work areas
- Train Platforms
- Cycle Paths
- Pontoons
- Factories

## AGGREGATES

Permagrip PU is typically used with Aluminium Oxide aggregate for its' high Polished Stone Value (PSV) of 70, and a score of 9 on the Mohs hardness scale. However, the versatility of the Permagrip PU system enables a range of aggregates to be used. Other suitable aggregates include Bauxite (Chinese and Guyanan), Flint and Granite.

Description	Size
Pedestrian Grade Fine	0.6mm - 1.0mm
Pedestrian Grade Medium	1.4mm - 2.0mm
Pedestrian Grade Coarse	1.0mm - 3.0mm
Vehicular Grade	3.0mm - 5.0mm

## DISCLAIMER

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product can be used under conditions beyond our control, we can only guarantee the quality of the product itself. We also reserve the right to change the given data without notice. Minor product variations may be implemented in order to comply with local requirements.

## TESTING

Permagrip PU has been independently tested by CERAM Research Ltd in accordance with Determination of Slip Resistance BS7976-2: 2002 Pendulum Testers - Method of Operation.

Description	PG Fine	PG Medium	PG Coarse
Average of 15 Dry Values:	74	73	78
Average of 15 Wet Values:	70	69	77

Pendulum Value	Potential For Slip
25 to 35	Moderate
35 to 65	Low
65 and above	Extremely Low

## TECHNICAL DATA

<b>Surface Preparation</b>	Material should be applied direct to blast cleaned steel prepared to a minimum standard of Sa2½ BS EN ISO 8501-1:2001. Average surface profile in the range 90-120 microns. Ensure surfaces to be coated are clean, dry and free from all surface contamination. For application on other surfaces such as concrete, please consult Permadeck Systems
<b>Mixing Ratio</b> Parts by weight	base: hardener: mineral 20.6: 7.9: 71.5
<b>Specific Gravity</b> (mixed)	approx. 1.8
<b>Volume Solids</b> (mixed)	100%
<b>Tensile Strength</b>	70 N/mm <sup>2</sup>
<b>Flexural Strength</b> (BS 6319 - 28 Days)	39 N/mm <sup>2</sup>
<b>Compressive Strength</b>	55 N/mm <sup>2</sup>
<b>Shore-D Hardness</b>	75
<b>Material Consumption</b> (Theoretical)	1.8 kg/m <sup>2</sup> per mm thickness
<b>Service Temperature</b>	80 °C maximum
<b>Pot Life at 20 °C</b>	30 Minutes
<b>Curing Time</b>	Light foot traffic after minimum 3 - 8 hours Full traffic load after minimum 16 hours Fully cured after 7 days
<b>Chemical Resistance</b>	The cured layer of Permagrip PU is resistant to petrol, diesel fuel, lubricating oil, hydraulic fluids, a number of aliphatic hydro-carbons, de-icing salts, cleaning fluids, jet fuel, diluted mineral acids and alkaline solutions

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