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LEESON PU SL FLOOR-2 (PU4174) SELF LEVELLING FLOOR COATING

DESCRIPTION

PU4174 is a two component self-levelling floor coating system available in a variety of colours for application onto primed concrete substrates.

TYPICAL SPECIFICATION

	PU4174 Part A Resin	PU4174 Part B Hardener
Colour:	Various	Brown Liquid
Density:	1.128 g/cm ³	1.23 g/cm ³
Solids:	100%	100%
Mixing Ratio	3.3	1
Viscosity @ 23 ^o C:	5,000 ± 500 mPa.s	170 ± 75 mPa.s
Mix Viscosity:	5,500 ± 1,200 mPa.s	
Pot life:	50 ± 5 minutes at 19 ^o C	
Coat Thickness	1.5-8mm	
Coat Weight	1.9-8.8 kg/m ²	

POLYMER TYPICAL SPECIFICATION

Parameters	Range	Standard
Seamless Join time	40 ± 5 minutes	LPU STM 92
Set time	Tack-free Time 180 ± 15 min	LPU STM 8
	Walk-on Time 24 ± 1h	
	Traffic 100 ± 4h	
Tensile Strength	>14 N/mm ²	BS2782 part 3 methods 320A-320F
Elongation	>100%	BS2782 part 3 methods 320A-320F
Hardness	58 ± 2 (Shore D)	LPU STM 9
Tensile Adhesion (with primer)	Concrete >3 N/mm ²	LPU STM 80
Water Permeation	0 %	LPU STM 81
Steam Cleanable	Yes	LPU STM 98
Skid Resistance	Dry 95 ± 10	LPU STM 91
	Wet 33 ± 5	

Chemical Resistance - Immersion method (LPU STM 73)		
Test Reagent	Surface and Structural damage after 7 days	Surface and Structural damage after 30 days
Acetone	4	5
Acetic Acid*	2	4
Citric Acid*	0	2
Hydrochloric Acid*	0	2
Sulphuric Acid*	0	1
Methanol	2	3
Ethanol	1	2
Propan-2-ol (IPA)	1	2
Butan-1-ol	1	3
Butan-2-ol	1	3
Petrol	3	5
Diesel	2	3
Sodium Hydroxide	0	1
Methylene Chloride	5	5

*All acids are at 2.0 Molar concentrations, (0 = No effect and 5 = maximum effect)

PRODUCT APPLICATION

Results are subject to the method of test. Different test conditions will give different results.

1. The substrate should be cleaned and free from debris before priming with Con-prime-2 (E4568) (see TDS for technical information). The primer should be applied at 0.25kg/m² with a smooth PU flexible foam roller. The primer should then be broadcast with a Chelford 52 dry sand prior to curing, at a rate of 1kg/m².
2. Once cured the primed surface must be swept free of excess sand. It must be free of contamination and water prior to PU4174 application, as such wiping/drying may be required, if it has been exposed to moisture (this should be avoided if at all possible).
3. For the optimum surface finish, the PU4174 is applied in two 1kg/m² coats.
4. PU4174 Part A (resin) should be mixed using a slow speed, high torque helical blade mixer until uniform. Care should be taken to minimise the air introduced by mixing, using a slow speed mixer and submerging the blade entirely into the PU4174 will reduce air entrapment.
5. PU4174 Part B is then added and mixed thoroughly at slow speed for 2 minutes until uniform.
6. The PU4174 is then poured onto the primed substrate and spread using a squeegee or trowel technique to the thickness required (within specified range, see technical spec section). The mixture must be removed from the vessel within 10 minutes of hardener addition.
7. PU4174 will then self-level in the area applied.
8. If multiple containers of Polyurethane are to be used then to achieve a seamless join up between perpendicular polyurethane coatings they must be applied and spike rolled within 35 minutes of each other.
9. Once the first coat of PU4174 is just tack cured, apply the second coat as before. This must be done before the 1st coat is cured to ensure a full chemical bond between the application layers.
10. A sealer can be applied to give an anti-slip finish, please consult the company for further details.

PACKAGING

PU4174 is supplied as 2 components. Please contact Leeson Polyurethanes Limited for available kit sizes. PU4174 Part A and PU4174 Part B have a shelf life of 6 months.

HEALTH & SAFETY

PU4174 Part A (Resin) is not classified as a dangerous substance, however, the wearing of goggles is to be recommended.

PU4174 Part B (Hardener) contains a non-volatile isocyanate. Avoid prolonged contact with skin. In cases of contact with eyes, flush out with excess water and seek medical attention. Wear goggles.

Additional Precautions

1. Use industrial safety gloves.
2. Use suitable eye protection.
3. Before use, ensure that you read the relevant Health and Safety Data Sheets for this product.

The company will supply, upon request, individual advice in writing in connection with the use and application of its products in all appropriate cases. Customers are urged to make use of this service. 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.