



Technical Datasheet
Self Levelling Polyurethane Flooring

PUMADUR S.L.

DESCRIPTION

Pumadur S.L. is a medium duty, flow applied, smooth flooring based upon polyurethane technology, which provides a surface with excellent resistances to abrasion, chemical attack and other forms of physical aggression.

COMPOSITION

Water dispersed polyurethane resin system combined with reactive polyurethane hardener and graded silica aggregates.

APPEARANCE

Seamless matt smooth finish with uniform colour.

DURABILITY

Highest order of durability, resistance to abrasion, impact and chemical attack.

THICKNESS

Typically 2-2.5mm.

TYPICAL INSTALLATIONS

The Pumadur S.R. is ideally suited to areas subject to heavy duty use:

Chemical processing
Food processing/wet areas
Brewing/dairy clean areas
Engineering processing areas

SUBSTRATES

Concrete, polymer reinforced screeds, grano concrete, mild steel and water resistant plyboard.

SURFACE PREPARATION

To be assured of maximum adhesion and properties from Resdev resin products the correct surface preparation is essential. Please refer to technical data sheet "Surface Preparation" reference TD102. In order to ensure the finished system remains fully bonded to the subfloor, it is recommended that the edges of the floor areas adjoining the walls are rebated to produce a cross-section of 20mm deep by 6mm wide, running at 150mm from and parallel with the walls.

APPLICATION CONDITIONS

5-30°C. Maximum moisture content of 75% RH

PRIMING

Priming of all surfaces should be undertaken with Pumaprime S.F. Please refer to technical data sheet reference TD002. The primer should be allowed to cure for a minimum of 16 hours prior to application of the Pumadur S.R. system. (Maximum overcoating time at 20°C – 48 hours). In order to ensure a minimum film build of 2mm is maintained and also minimise wide variations in applied product film thickness, it is recommended that floors with notable variations in profile or level are scratch-coated prior to application of Pumadur S.L.

MIXING

Pumadur S.L. is a three-component product. Pre-mixing of the coloured liquid component is recommended to ensure any light settlement is reincorporated. Thoroughly drain the contents of the brown hardener component into the liquid colour component and mix for a minimum of one minute or to provide a homogeneous mix. The resultant mixture should then be loaded into a rotary drum mixer and the aggregate component added in stages, mixing until a lump free, smooth mix is obtained.

APPLICATION CONDITIONS

Apply to pre-primed areas, levelling to the required thickness with a steel trowel aided by a Resdev spiked roller. Spiked rolling should be effected within three minutes of application in order to avoid interfering with the flow and film gel times.

COVERAGE RATES

Nominal thickness	2.0mm	2.5mm
Coverage – kg/m ²	3.63	4.54

SPECIFICATION DETAIL

Pumaprime S.F. applied at 125g/m².
Pumadur S.L. at coverage rates quoted above.

MAINTENANCE

Providing contamination is not allowed to build up, regular scrubbing and mopping will maintain these systems in serviceable conditions. Normal proprietary cleaning agents in combination with pressure washing may be employed.

CURE SCHEDULE

Usable Life of full unit/mix at 20° C	-15 mins
Initial film gel time (Joining up) at 20° C	-20 mins
Cure time to light pedestrian traffic at 20° C	-5-7 hours
Cure time to light wheeled traffic at 20° C	-12-16 hours
Cure time to heavy duty traffic at 20° C	-24 hours
Full cure at 20° C	-3-5 days

CHEMICAL RESISTANCE

Excellent resistances to organic and inorganic acids, alkalis, fuel and hydraulic oils, aromatic and aliphatic solvents. Please refer to technical data sheet reference TD112.

COLOURS AVAILABLE

All standard Resdev colours except white, blue and magnolia.

TECHNICAL DATA

Compressive strength to BS6319 Part 2	-62.0N/mm ²
Tensile strength to BS2782:320D	-12N/mm ²
Flexural strength to A.S.T.M. D790	-40.0N/mm ²
Elastic modulus to BS2782:320D	-1530.0N/mm ²
Slant shear bond strength to BS6319	-55.0N/mm ²
Abrasion resistance by Taber mg loss/1000 cycles/ 1kg load with H18 wheel	-900
TRRL slip resistance	-65 Dry

HEALTH AND SAFETY

Please read technical data sheet reference TD103 and specific health and safety data for this product provided in compliance with the requirements of EC Directive 91/155.

STORAGE, MIXING & APPLICATION

The storage, mixing and application conditions can affect the quality of the finish produced. Please read technical data sheet reference TD104.

TECHNICAL ADVICE

For further information on this or any other Resdev product, please contact our Customer Care Department on 01422 379131.