



Technical Datasheet
Heavy Duty Polyurethane Flooring

PUMADUR H.F.

DESCRIPTION

Pumadur H.F is a heavy duty polyurethane based floor designed to provide excellent resistances to abrasion, chemical attack and other physical aggression.

COMPOSITION

Water dispersed polyurethane resin system combined with graded silica aggregates.

APPEARANCE

A level mottled aggregate surface with chosen background colour providing a light slip resistant texture.

DURABILITY

Highest order of durability, resistances to abrasion impact and chemical attack. Stable to steam cleaning and hot water exposure at a thickness on 9mm.

THICKNESS

Typical 9mm or 6mm

TYPICAL INSTALLATIONS

Heavy duty situations to contact:-
Chemical processing
Food processing
Brewing
Heavy duty traffic and plant vehicles
Engineering process areas

SUBSTRATES

Concrete, polymer reinforced screeds, grano concrete.

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". In order to ensure the finished system remains fully bonded to the sub-floor, it is recommended that the edges of the floor area adjoining the walls are rebated to produce a cross-section of 20mm deep by 8mm 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. This primer should be allowed to cure for a minimum of 16 hours prior to application of the Pumadur H.F. system. (Maximum overcoating time at 20° C – 48 hours).

MIXING

Pre-mixing of the coloured liquid component is recommended to ensure any light settlement is reincorporated. Thoroughly scrape the contents of the liquid colour component into the brown hardener component and mix for a minimum of 1 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 mix is obtained. Apply to pre-primed areas and lever with a pin rake as necessary and lightly touch up with a trowel.

COVERAGE RATES

18kg/m² at 9mm or 12kg/m² at 6mm.

SPECIFICATION DETAIL

Pumaprime S.F. at approx. 125g/m².
Please refer to technical data sheet.
Pumadur H.F. at 9mm or 6mm.

MAINTENANCE

Regular cleaning of the applied system is recommended in order to maintain slip resistant properties and cosmetics.
Normal proprietary cleaning agents in combination with pressure Washing/steam cleaning 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/9mm build	- 20 mins
Cure time to light traffic at 20° C/9mm	- 4-6 hours
Cure time to light wheeled traffic at 20° C/9mm	- 12-16 hours
Cure time to heavy duty traffic at 20° C/9mm	- 24 hours
Full cure at 20° C/9mm	- 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.

COLOURS AVAILABLE

All standard Resdev colours except white, blue and magnolia.

TECHNICAL DATA

Compressive strength to BS6319 Part 2 (N/mm ²)	- 59.0
Tensile strength to BS2782:320D (N/mm ²)	- 6.5
Flexural strength to A.S.T.M. D790-84a (N/mm ²)	- 40.0
Elastic modulus to BS2782:320D (N/mm ²)	- 1350.0
Slant shear bond strength to BS6319 (N/mm ²)	- 51.0
Abrasion resistance by Taber mg loss/1000 cycles/ 1kg load with H10 wheel	- 900
RRL slip resistance	- 60 Wet - 80 Dry

HEALTH AND SAFETY

Please read technical data sheet 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.

TECHNICAL ADVICE

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