



Technical Datasheet
Polyurethane Terrazzo Flooring

PUMADUR T.Z.

DESCRIPTION

Pumadur T.Z. is a heavy duty terrazzo floor produced by the combination of inert coloured granite aggregates within a high performance polyurethane resin system. The resultant floor finish provides all the beauty of conventional marble terrazzo combined with the advantage of a heavy duty, seamless, high chemical resistant polyurethane finish

COMPOSITION

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

APPEARANCE

Pumadur T.Z. is produced in a range of pastel background colours including 34mm granite aggregates providing a terrazzo effect which is ultimately ground off to provide a smooth polished cosmetic finish.

DURABILITY

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

THICKNESS

8mm ground down to 6mm.

TYPICAL INSTALLATIONS

Prestige industrial areas such as pharmaceutical preparation, industrial museums, foyers etc.

SUBSTRATES

Concrete and grano.

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 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 reference TD002. The primer should be allowed to cure for a minimum of 16 hours prior to application of the Pumadur T.Z. system. (The maximum overcoating time at 20°C should not exceed 48 hours)

When applying Pumadur T.Z. into wet primer, Pumaprime T.C should be employed; please refer to TD001.

MIXING AND APPLICATION TECHNIQUE

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 container with the liquid colour component. Mix manually or by low shear electric mixer for a minimum of one minute or to ensure a homogeneous mix is obtained. 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 level between battens as necessary with a steel float, final finishing may be effected by "back-rollering" with a short nap paint roller in order to remove any surface entrained air. The mortar is allowed to cure overnight and ground down with conventional terrazzo grinding machines to a nominal 6mm. The ground off mortar is then grouted with Pumadur T.Z. grout to infill any voids. Final fine grinding is then carried out to produce a smooth polished terrazzo finish. To produce a first class surface the applicator must be experienced in terrazzo finishing. Please consult our Customer Care Department for advice.

COVERAGE RATES

Pumadur T.C at 8mm – 16kg/m²

SPECIFICATION DETAIL

Pumaprime S.F. @ 125 g/m²

Pumadur T.Z @ 8mm – 16 kg/m²

After grinding – grouting with Pumadur T.Z Grout.

SEALING

Pumadur T.Z does not require sealing, but may be treated by the following:

i) Wax polishing

ii) Aliphatic clear polyurethane seal (Pumadur D.D).

The beauty of this finish will develop over a period as it is the case with conventional marble terrazzo.

MAINTENANCE

Pumadur T.Z is an attractive heavy duty finish and in order to maintain its cosmetic features, it is essential that it is continually kept clean by regular mopping or scrubbing with mild proprietary detergent.

CURE SCHEDULE

Usable Life of full unit/mix at 20° C	- 20 mins
Initial film gel time (joining up) at 20°	- 25 mins
Cure time to light pedestrian traffic at 20°C/8mm	- 5-7 hours
Cure time prior to grinding at 20° C/8mm	- min. 24 hrs
Full cure of system at 20° C/8mm	- 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 are available, however, it is recommended that pale or pastel colours are chosen for the background as this enables a cosmetic contrast with the included granite aggregate.

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/ wheel/1kg load with H10 wheel	-	1100/kg H18 900
RRL slip resistance	-	75 Wet 120 Dry
Surface spread of flame to BS 476 Part 7	-	Class 2

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.