



Technical Datasheet
Heavy Duty Epoxy Flooring

PUMACRETE

DESCRIPTION

Pumacrete is a heavy duty epoxy flooring designed to meet the demands for a completely non-porous, chemically resistant, slip resistant, seamless floor topping. Pumacrete has been used in areas subject to constant cleaning with hot water with no signs of failure.

COMPOSITION

Solvent free epoxy resin and graded quartz aggregate mortar in a range of colours.

APPEARANCE

Slightly mottled coloured finish with a slip resistant textured surface.

DURABILITY

Excellent resistances to abrasion, impact and shock. Long-term maintenance free durability.

THICKNESS

6-9mm

TYPICAL INSTALLATIONS

Pumacrete is used in areas subject to heavy wear combined with chemical attack such as chemical plants, wet food processing, breweries, dairies, plating shops etc.

SUBSTRATES

Concrete, grano, metals.

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.

APPLICATION CONDITIONS

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

PRIMING

Use Pumaprime T.C. Please refer to technical data sheet.

MIXING

Pumacrete is a three pack product. Mix the hardener component well into the resin for a period of 1 minute until even coloured. Transfer the mixed resin into a rotary drum mixer and add the aggregate slowly until evenly wetted.

APPLICATION TECHNIQUE

Pumacrete should be applied directly into uncured wet Pumaprime T.C. The mortar is spread to an even thickness and the surface closed using a steel float.

SEALING

Pumacrete does not normally require a seal coat. However, where aesthetics are paramount. The product should be sealed at all times with Pumagrout or Pumaguard SFS. NB. With light colours tend to show trowel burns and can look uneven.

COVERAGE RATES

	6mm	9mm
Pumaprime T.C.	5m ² /kg	5m ² /kg
Pumacrete	12kg/m ²	18kg/m ²
Pumaguard SFS	4m ² /kg	4m ² /kg
Pumagrout	4m ² /kg	4m ² /kg

SPECIFICATION DETAIL

1. Pumaprime T.C at 200-300g/m² depending on substrate.
2. Pumacrete at 2kg/m² per 1mm thickness required.
3. Pumaguard SFS seal optional depending on colour.
4. Pumagrout clear or coloured.

MAINTENANCE

Pumacrete can be maintained in its original condition providing contamination is not allowed to build up and the floor is regularly scrubbed using proprietary cleaners.

CURE SCHEDULE

Pot Life at 20°C	-	30-45 mins
Initial Set at 20°C	-	12 hours
Foot Traffic at 20°C	-	24 hours
Heavy Traffic at 20°C	-	2 days
Full Chemical Cure at 20°C	-	7 days

CHEMICAL RESISTANCES

Pumacrete exhibits the highest order of chemical resistance, please refer to technical data sheet reference TD112.

GRADES AVAILABLE

FC, RC, FX. Please refer to technical data sheet reference TD111.

COLOURS AVAILABLE

All standard Resdev colours except White, Beige, Blue or magnolia.

TECHNICAL DATA

Compressive Strength	-	63-75N/mm ²
Flexural Strength	-	33-36N/mm ²
Slant Shear Bond Strength	-	40N/mm ²
Elastic Modulus	-	5.3-6.9KN/mm ²
Tensile Strength	-	11.3-13.3N/mm ²
Flame Spread BS476 Part 7:1971	-	Class 2
Permeability	-	Nil 5 hours vacuum 1 metre water
Freeze-Thaw 24, 36 & 72 hour cycle days - 40°C to 20°C	-	No loss of adhesion

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.