

# Pumadur SC

Heavy duty polyurethane floor screed



Resin Development

## Description

**Pumadur SC** is a three component heavy duty polyurethane floor screed for use on concrete and polymer modified cementitious screeds. **Pumadur SC** is designed to provide excellent wear resistance when used in conjunction with **Pumadur Grout** and a high build coating finish. **Pumadur SC** is ideal for industrial floors including: manufacturing and storage areas, engineering plants and re-profiling damaged or worn floors

## Appearance

Coloured, matt, flat mottled finish. Requires sealing.

## Features & Benefits

- Low odour
- Hardwearing and tough
- Seamless
- Thick section
- Impervious when sealed
- Can be power-trowelled

## Thickness

4 - 15 mm

## Typical Properties, 28 days at 20 °C

BS 8204-6	Type 6
Mixed density (approximately)	2 g/cm <sup>3</sup>
Shore D hardness	73

The typical physical properties given above are derived from testing in a controlled laboratory environment. Results derived from testing field-applied samples may vary dependent upon site conditions. Any slip resistance figures given above are affected by application techniques and prevailing site conditions. Slip resistance can reduce over time due to poor maintenance, general wear or surface contaminants. Good housekeeping practices should be observed.

## Cure Schedule at 20 °C

Working life of full packs \* 15 minutes

\* Usable working life of material following mixing and immediate spreading as per the application instructions.

## Finished floor \*

Over-coat time	12 - 48 hours
Cure time to light pedestrian traffic	12 hours
Cure time to light wheeled traffic	24 hours
Cure time to heavy duty traffic	48 hours
Full chemical resistance	7 days

\* The above cure times are approximate and given as a guide only. These times can vary due to prevailing site conditions.

## Pack Size

27.5 kg

## Coverage\*

Approximately 2 kg/m<sup>2</sup> per mm thickness

\* Coverage figures given are theoretical. Practical coverage rates may vary due to wastage factors and the type, condition, profile and porosity of the substrate.

## Colours

**Pumadur SC** is available in a range of standard colours. **Pumadur SC** is not colour fast and may yellow over time. The rate of change will depend on UV light and heat levels and cannot be predicted. This will be more pronounced with lighter colours and blue shades and does not compromise the product's performance or chemical resistance characteristics.

## Application Conditions

Ideal ambient and substrate temperature range is 15 - 25 °C. Localised heating or cooling equipment may be required outside this range to achieve ideal temperature conditions. The aggregate can be stored in a cool area (or warm area in the case of low ambient temperature) in order to control product temperature and working life. The substrate and uncured floor must be kept at least 3 °C above the dew point to reduce the risk of condensation or blooming on the surface, from before priming to at least 48 hours after application.

## Surface Preparation

Inadequate preparation will lead to loss of adhesion and failure. Grinding, light vacuum-contained shot-blasting or planing is recommended. Percussive scabbling or acid etching is not recommended. Anchorage grooves should be cut to a width and depth of twice the thickness of the floor finish at the edges, bay joints, up-stands, drains, doorways and at regular points across the floor, and all debris removed. Refer to the **Resdev Guide to Surface Preparation** for further information.

## Application Instructions

### Priming

Apply **Pumadur SC** into tacky **Pumaprime TC** applied at 225 - 350 g/m<sup>2</sup>. If, when applied, there are dry patches, a further primer coat is required.

## Resdev Limited

Pumafloor House, Ainleys Industrial Estate  
Elland, West Yorkshire, HX5 9JP, England  
Tel: +44 (0) 1422 379131  
fax: +44 (0) 1422 370943  
info@resdev.co.uk  
www.resdev.co.uk



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### Application of Pumadur SC

Prior to mixing, the temperature of the three components must be between 15 and 25 °C. Pre-mix the coloured resin component before use. Add the hardener component to the coloured resin component and mix using a low speed electric mixer (300 - 400 rpm) for 1 - 2 minutes until homogeneous. Decant the mixture into a rotary drum mixer and add the aggregate component in stages, mixing for a minimum of 3 minutes until a uniform coloured, lump-free mix is obtained. Apply the mixture immediately onto the wet/tacky primer using a steel float and level between batons as necessary. Alternatively, **Pumadur SC** can be power-trowelled. Over-trowelling will lead to a blotchy surface appearance.

### Sealing

When cured, grout using **Pumadur Grout** at 225 - 350 g/m<sup>2</sup>. When cured, finish with the required seal coat i.e. **Pumadur TF**, **Pumaguard SFS**, **Pumashield**, **Pumatect** etc.

### Cleaning

Regular cleaning is essential to enhance and maintain the life expectancy and appearance of the floor. **Pumadur SC** systems can be easily cleaned using industry standard cleaning chemicals and techniques. Consult your cleaning chemical and equipment supplier for more information.

### Health and Safety

Refer to product Safety Data Sheet before use.

### EU Directive 2004/42/EC

Complies with category j type SB (< 500 g/l). The VOC content of **Pumadur SC** is approx. 5 g/l (theoretical).

### Storage

Store off the ground in un-opened packs in a dry store, under cover between 10 °C and 30 °C out of direct sunlight. Protect from frost.

### Shelf Life \*

Resin and hardener components    12 months  
Aggregate component                      6 months

\* If stored in accordance with the above recommendations.

### Limitations

Do not proceed with application if atmospheric relative humidity is, or is anticipated to be, >75% or if the surface temperature is <3 °C above the dew point. Application should not commence when the substrate temperature or the ambient temperature is, or is anticipated to be <5 °C during the application or within the curing period. The manufacture of **Pumadur SC** is a batch process and despite close manufacturing tolerances, colour variation may occur between batches. Products from different batches should not be used on the same surface or surfaces close together. If mixed batches are unavoidable, it is best practice to use the different batches only in areas where the colour cannot be directly compared. Touching up should only be attempted using product from the same batch using the same application methods. Product should be reserved specially for this purpose. It is recommended that touching up is carried out up to a break in the floor or surface.

### Technical Advice

For further information on this or any other Resdev product, please contact our office.

### Note

The information contained in this document, and all further technical advice given is based on our present knowledge and experience. However, it implies no liability or legal responsibility on our part. In particular, no warranty or guarantee of product performance in the legal sense is intended or implied as the conditions of use and the competence of any labour involved in the application are beyond our control. Properties listed are for guidance purposes only. We reserve the right to make any changes according to technological progress or further developments.

Resdev Limited, Pumaflor House, Ainleys Industrial Estate Elland, West Yorkshire, HX5 9JP, England			
CE		13	DOP RV0039
EN 13813 SR-B1,5 Synthetic resin screed material for use internally in buildings not subject to reaction to fire regulations			
Reaction to fire	NPD	Impact resistance	NPD
Release of corrosive substances	SR	Sound insulation	NPD
Water permeability	NPD	Sound absorption	NPD
Wear resistance	NPD	Thermal resistance	NPD
Bond strength	B1,5	Chemical resistance	NPD

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