

Pumadur SC



Product 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:

Lightly textured matt finish. The product requires sealing.

Features & Benefits:

- Low odour.
- Thick section.
- Seamless.
- Impervious when sealed.
- Can be power-troweled.

Thickness:

4.0 mm - 6.0 mm.

Health & Safety:

Refer to product Safety Data Sheet before use.

Technical Advice:

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

Available Colours:

Please see price list for available colours.

EU Directive 2004/42/EC:

Complies with category j type SB (< 500 g/l). The VOC content of **Pumadur SC** is approx. 9 g/l (theoretical).

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 Conditions:

Optimum substrate temperature range is 15 - 25 °C. Localised heating (electric powered warm air blower) 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.

Application:

Pumadur SC should be applied into tacky **Pumaprime TC** (typically 45 - 60 minutes after application) at 225.0 - 350.0 g per m². If before application of **Pumadur SC**, there are dry patches, a further primer coat is required. 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-troweled. Over-troweling will leave to a blotchy surface appearance.

Sealing:

When cured, grout using **Pumadur Grout** at 225.0 - 350.0 g per m². Once the grout has cured finish with the required seal coat. (for example: **Pumadur TF**, **Pumaguard SFS**, **Pumashield SF** or **Pumatect**). (see separate datasheets).

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Cleaning:

Regular cleaning is essential to enhance and maintain the life expectancy, slip resistance and appearance of the floor.

Pumadur SC can be easily cleaned using industry standard cleaning chemicals and techniques. Consult your cleaning chemical and equipment supplier for more information.

Limitations:

Do not proceed with application if atmospheric relative humidity is, or is anticipated to be, >85% or if the surface temperature is <3 °C above the dew point. The design strength of concrete surfaces must be a minimum of 25 N/mm² compressive strength at 28 days.

Application should not commence when the substrate temperature or the ambient temperature is or is anticipated to be <10 °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.

Pumadur systems are 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 on lighter colours but does not affect the performance of the product.

PRODUCT INFORMATION	
Chemical Type	Water Based Cementitious Polyurethane
Packaging	27.50kg Unit: Resin: 1.39kg Hardener: 1.11kg Aggregate: 25.00kg
Shelf life	Resin & Hardener: 12 Months Aggregate: 6 Months
Storage conditions	Pumadur SC must be stored off the ground in original packaging, unopened and undamaged. The ambient conditions must be dry and between 10°C and 30°C with no direct sunlight. Protect from frost.

APPLICATION INFORMATION	
Mixing Ratio	MIX FULL UNITS
Consumption	Approx. 2.00 kg per m ² per mm.
Environmental Conditions	Air Temp +15°C to 25°C Relative air humidity <85% Dew Point >3°C above
Substrate Temperature	+15°C to 25°C
Substrate Moisture Content	Substrate relative humidity (RH): <75% Concrete must have a tensile strength: >1.5 N/mm ²
Pot life (approx.)	+10°C 20 to 30 minutes +20°C 15 to 20 minutes +30°C 10 to 13 minutes
Curing Schedule 20°C	Light Pedestrian Traffic Above 48 hours Light Wheeled Traffic Above 4 days Heavy Duty Traffic Above 5 days Full Chemical Resistance 7 days
Service Conditions	Can be cleaned up to 60°C once sealed and fully cured.

TECHNICAL INFORMATION *	
Adhesive strength to concrete	BS EN 13892-8 >1.5 N/mm ²
FeRFA Floor Type	BS 8204-6 Type 6

*The typical physical properties given above are derived from testing in a controlled laboratory environment. In the field results may vary due to site conditions.

APPROVALS & STANDARDS

Synthetic Resin Screed material according to EN 13813:2002

Eurofins Indoor Air Quality GOLD certified

Note: The information contained in this document, and all further technical advice is given 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 is beyond our control. Properties listed are for guidance purposed only. We reserve the right to make any changes according to technological progress or further developments.

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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