

# Pumadur CG



## Product Description:

**Pumadur CG** is a seamless, polyurethane mortar for application to vertical surfaces and for forming radius coves. **Pumadur CG** is designed with the highest order of durability, abrasion and chemical resistance (when sealed with **Pumadur TF**).

Its easy to clean, sealed, matt finish makes the product ideal for environments such as the food, beverage, engineering and chemical industries.

**Pumadur CG** is ideal for coving, plinths and bases, drain linings and bunds.

## Appearance:

Lightly textured matt finish, upon sealing becomes smooth.

## Features & Benefits:

- Non-tainting.
- Seamless (minimum joints required).
- High abrasion resistance.
- Easy to maintain.
- Wide chemical resistance.

## Thickness:

Typically 2.0 mm - 9.0 mm with a maximum height of 300.0 mm.

## Non-Tainting:

**Pumadur CG** is water based and non-tainting (Campden & Chorleywood Food Research Association test method TES-S-002).

## Chemical Resistance:

**Pumadur CG** is resistant to a wide range of commonly used chemicals in the food, dairy and pharmaceutical industries such as concentrated citric acid (fruits), spirit vinegar (50% acetic acid), lactic acid (food & dairy products) and common alcohols (methanol & ethanol).

**Pumadur CG** is also resistant to a wide range of inorganic acids, fuels, hydraulic oils, mineral oils and solvents. Good housekeeping practices should be employed. Please consult our Technical Department for further advice.

Some staining or discolouration may occur with some chemicals, depending on dwell time, temperature, type of chemical and degree of housekeeping employed. This does not affect the product's service integrity or durability.

## 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.

## Surface Preparation:

Inadequate preparation will lead to loss of adhesion and failure. Substrates should be clean, dry, sound and free of surface laitance. 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 CG** should be applied into tacky **Pumadur Primer TC** (typically 45 - 60 minutes after application). If before application of **Pumadur CG**, 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 pre-primed areas using a coving trowel to form skirting if required. Avoid excessive troweling.

## Sealing:

Due to the dry nature required of a product designed to be applied vertically, **Pumadur CG** shows a lower colour strength than flooring materials and colour density may vary throughout an installation. Where a closer colour match is required or where **Pumadur CG** requires sealing, for example, in wet areas or where chemical spillages are likely, **Pumadur TF** should be applied between 24 and 48 hours after application. See separate technical datasheet.

## Cleaning:

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

## EU Directive 2004/42/EC:

Complies with category j type SB (< 500 g/l). The VOC content of **Pumadur CG** is approx. 6 g/l (theoretical).

## Available Colours:

Please see price list for available colours.

## 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. 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 design strength of concrete surfaces must be a minimum of 25 N/mm<sup>2</sup> compressive strength at 28 days.

The manufacture of **Pumadur CG** 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           | <b>16.30kg Unit:</b><br>Resin: 1.00kg<br>Hardener: 0.80kg<br>Aggregate: 14.50kg  |
| Shelf life          | Resin & Hardener: 12 Months<br>Aggregate: 6 Months   |
| Storage conditions  | <b>Pumadur CG</b> 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                | 100.0 mm x 500.0 mm x 6.0 mm cove (2"radius) - 4.86 linear metres per pack.   |
| Environmental Conditions   | Air Temp +15°C to 25°C<br>Relative air humidity <85%<br>Dew Point >3°C above  |
| Substrate Temperature      | +15°C to 25°C   |
| Substrate Moisture Content | Substrate relative humidity (RH): <75%<br>Concrete must have a tensile strength: >1.5 N/mm <sup>2</sup>                       |
| Pot life (approx.)         | +10°C 20 to 30 minutes<br>+20°C 15 to 20 minutes<br>+30°C 10 to 13 minutes  |
| Curing Schedule 20°C       | Full Chemical Resistance 7 days<br><br>Pumadur CG should be sealed with Pumadur TF between 24 and 48 hours after application. |

| SERVICE CONDITIONS*                 |             |   |
|-------------------------------------|-------------|---|
| Temperature Extremes (when sealed): | Temperature | Conditions  |
|                                     | +70°C       | Spillages when applied at 6.0 mm                          |
|                                     | +120°C      | Spillages when applied at 9.0 mm including steam cleaning |
|                                     | -25°C       | When applied at 6.0 mm                                    |
|                                     | -40°C       | When applied at 9.0 mm                                    |

\* Where thermal shock is likely it is essential that the substrate is of good quality concrete of the correct specification. For cold temperature the product must be fully cured before the freezer is activated and the temperature must not be reduced at a blast chill rate; preferably over a minimum of 12 hours.

| TECHNICAL INFORMATION *       |               |                        |
|-------------------------------|---------------|------------------------|
| Adhesive strength to concrete | BS EN 13892-8 | >1.5 N/mm <sup>2</sup> |
| 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

**Pumadur CG** is a non-tainting product in accordance with test method TES-S-002 performed by Camden Food Research

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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|---|------|----------------------|------------|
| Resdev Limited, Pumaflor House, Ainleys Industrial Estate<br>Elland, West Yorkshire, HX5 9JP, England   |      |                      |            |
| CE  |      | 13                   | DOP RV0021 |
| <b>EN 13813 SR-B1,5</b><br><b>Synthetic resin screed material for use internally in buildings</b><br><b>not subject to reaction to fire regulations</b> |      |                      |            |
| 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        |