

# Pumadur WR



## Product Description:

**Pumadur WR** is a lightweight, seamless, polyurethane mortar for application to vertical surfaces and for forming radius coves. **Pumadur WR** is designed with the highest order of durability, abrasion and chemical resistance (when sealed with **Pumadur TF**). Its easy to clean matt finish makes the product ideal for environments such as the food, beverage, engineering and chemical industries.

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

## Appearance:

Lightly textured, matt finish.

## Features & Benefits:

- Lightweight.
- Non-tainting.
- Seamless.
- Easy to maintain.
- Good chemical resistance.

## Thickness:

Typically: 2.0 mm - 9.0 mm (vertically: 4.0 mm maximum).

## Non-Tainting:

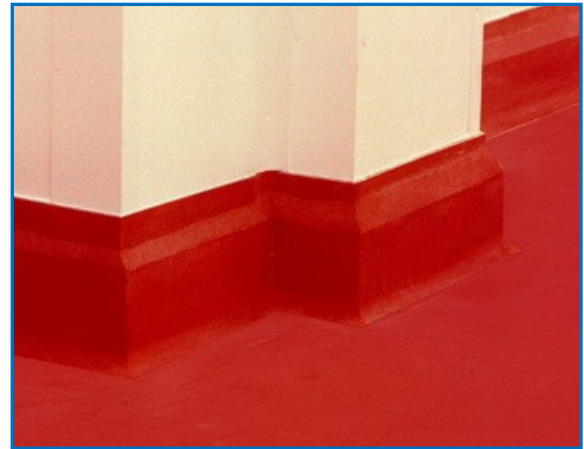
**Pumadur WR** is water based and non-tainting (Campden & Chorleywood Food Research Association test method TES-S-002).

## Chemical Resistance:

**Pumadur WR** 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 WR** is also resistant to a wide range of inorganic acids, fuels, hydraulic oils, mineral oils and solvents. For maximum chemical resistance, **Pumadur WR** should be fully sealed with an appropriate Resdev product such as **Pumadur TF**. 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. See 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 WR** should be applied into tacky **Pumaprime TC** (typically 45 - 60 minutes after application). If, prior to application of **Pumadur WR**, 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 trowel or 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 WR** 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 WR** 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 and appearance of the product. **Pumadur WR** can be easily cleaned using industry standard cleaning chemicals and techniques, especially where sealed using **Pumadur TF**. 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. 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 WR** 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.

### EU Directive 2004/42/EC:

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

### Available Colours:

Please see price list for available colours.

**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	
<b>Chemical Type</b>	Water Based Cementitious Polyurethane
<b>Packaging</b>	<b>16.80kg Unit:</b> Resin: 1.00kg Hardener: 0.80kg Aggregate: 15.00kg
<b>Shelf life</b>	Resin & Hardener: 12 Months Aggregate: 6 Months
<b>Storage conditions</b>	<b>Pumadur WR</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 50.0 mm (2.0" radius) - approximately 5.0 linear metres per pack. Approximately 2.0 kg per m <sup>2</sup> per mm thickness when applied flat.
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 <sup>2</sup>
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	Full Chemical Resistance    7 days  <b>Pumadur WR</b> should be sealed with <b>Pumadur TF</b> between 24 and 48 hours after application.
Service Conditions	<b>Pumadur WR</b> is resistant to cleaning temperatures up to 60°C when applied at a minimum of 4.0 mm thickness. (once sealed).

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 WR** 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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<b>CE</b>		13	DOP RV0022
<b>EN 13813 SR-B1,5</b> <b>Synthetic resin screed material for use internally in buildings</b> <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