

Pumadur DP

Textured Polyurethane Screed system



Resin Development

Description

Pumadur DP is a textured polyurethane screed produced by fully broadcasting aggregate onto the **Pumadur DP** polyurethane screed base and sealing the surface with **Pumadur DP Topcoat**.

Pumadur DP has a variable textured finish which makes the product ideal for both wet and dry processing environments such as the food and beverage industry and commercial areas where a robust, high performance floor is required.

Appearance

Seamless, surface with a variable slip resistant texture depending on the profile aggregates used.

Features & Benefits

- Resin rich - easier and quicker to apply than Trowel applied screeds
- Seamless surface
- Variable Slip resistance through a choice of size and profile of the aggregates

Thickness

4 – 6 mm

Temperature Resistance

Pumadur DP is resistant to spillages and discharges up to 60°C.

Typical Properties, 28 days at 20 °C

BS 8204-6 Type 8

Adhesive strength to concrete (BS EN 1504-2): >1.5 MPa

Slip resistance (Pendulum Test Value BS 7976-2):

> 40 wet—Pumadur DP (0.7-1.2mm aggregate)

> 45 wet—Pumadur DP (1.2—1.8mm aggregate)

> 50 wet—Pumadur DP (1-3mm aggregate)

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. The 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.

Where specific values are required these must be assessed from an on site trial under prevailing site conditions, with the selected materials.

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 *

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

26 kg

Coverage *

8 kg/m² at 4 mm or 12 kg/m² at 6 mm

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

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.

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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. For concrete bases in contact with the ground, a damp proof membrane should have been incorporated into the slab design, in accordance with the requirements of CP102 (Code of Practice for Protection of Buildings Against Water from the Ground).

Priming

Priming should be carried out using **Pumaprime SF** taking particular care to prime but not fill the anchor grooves (see separate data sheet).

Application of Pumadur DP

Prior to mixing, the temperature of the three components should 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 to primed areas to the required thickness using a steel float. Ensure that anchor grooves are fully wetted out with material. Lightly rolling with a short nap or foam roller may aid levelling.

Whilst still wet, fully broadcast with the required aggregate at a rate of 4 - 5 kg/m². When cured, remove excess aggregate using a brush and vacuum.

Apply **Pumadur DP Topcoat** at a rate of 0.4 - 1.2kg/m². (Depending on aggregate chosen)

0.7-1.2mm Aggregate	0.4-0.6kg/m ² .
1.2-1.8mm Aggregate	0.7-0.9kg/m ²
1-3mm Aggregate	1.0-1.2kg/m ²

Cleaning

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

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, >90% 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 design strength of concrete surfaces must be a minimum of 25 MPa compressive strength at 28 days. The manufacture of **Pumadur DP** 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.

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CE		13	DOP RV0076
EN 13813 SR-B2,0 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	B2,0	Chemical resistance	NPD

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