



Specialist Construction Supplies for Repair, Maintenance, Building & Infrastructure

## Pumabulk Data Sheet

### Specification notes

Product: **Pumabulk MP**

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# Pumabulk

Resin-rich heavy duty polyurethane repair mortar



## Description

**Pumabulk** is a resin-rich granite reinforced, trowel applied polyurethane repair mortar for use as underlayment or infill on concrete and polymer modified sand/cement screeds and to form falls or ramps prior to the application of a specified **Pumadur** or **Pumafloor** flooring system.

## Appearance

Grey hand trowelled finish.

## Thickness

10 - 60 mm depending upon the nature of the application or repair.

## 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  $\geq$  10 mm thickness \*

Cure time to light pedestrian traffic 8 hours

Over-coating window 16 - 48 hours

Full cure 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

28.2 kg

## Coverage\*

As a guide, 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.

## 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

Substrates must be clean, dry, sound and free of surface laitance and exhibit minimum rebound hammer readings of 25. 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.

## Priming

**Pumabulk** should be applied into **Pumaprime TC** whilst still tacky to ensure adhesion.

## Mixing

Prior to mixing, the temperature of the three components must be between 15 and 25 °C. Pre-mix the resin component before use. Add the hardener component to the 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.

## Application

Apply by steel float directly into tacky **Pumaprime TC** in order to effect a smooth sealed surface. Depending upon the nature of the surface being treated, the use of laths and/or screeding bars may be necessary to ensure a level surface is maintained. Ensure that anchor grooves are fully wetted out with material.

## 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

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### 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.

### 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<br>Elland, West Yorkshire, HX5 9JP, England |                  |                     |            |
|                      |                  | 13                  | DOP RV0020 |
| EN 13813 SR-B1,5<br>Synthetic resin screed material for use internally in buildings                   |                  |                     |            |
| Reaction to fire  | E <sup>(1)</sup> | 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        |

<sup>(1)</sup> According to Commission Decision 2010/85/EU of 9 February 2010, the product satisfies all the requirements of the performance characteristic 'reaction-to-fire' class E<sub>fl</sub> without need for further testing.

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