

Pumaseal PC

Polyurethane Floor Seal



Description

Pumaseal PC is a two-component flexible but abrasion resistant polyurethane floor seal.

Appearance

Available in coloured gloss or silk finishes. **Pumaseal PC** is not 100% colour fast and may yellow over time. The rate of change will depend on UV light and heat levels and cannot be predicted. This does not compromise the product's performance.

Typical Uses

Pumaseal PC not only seals but penetrates old and porous concrete acting as a binder. The product provides an attractive dust-free, low-coat finish which is ideal for light duty work areas. It is readily cleaned and maintained providing a hygienic surface finish.

Features & Benefits

- Economical low-cost finish
- Excellent abrasion resistance
- Flexible
- Non-dusting

Thickness

Approximately 50 to 90 microns dry film thickness per coat depending on substrate profile/porosity and application rate.

Typical Properties, 28 days at 20 °C

BS 8204-6
Adhesion to concrete (BS EN 1504-2) > 1.5 MPa (concrete failure)

Type 1

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.

Suitable Substrates

Concrete, wood and polymer modified cementitious screeds. Not for use on asphalt.

Pack Size

5 kg and 10 kg units.

Cure Schedule at 20 °C

Working life of full packs * 30 minutes

* Usable working life of material following mixing and immediate spreading as per the application instructions.

Finished floor *

Over coating time 6 - 24 hours

Cure time to pedestrian traffic 16 hours

Full cure 7 days

The floor should be protected from contact with water for at least 7 days.

* The above cure times are approximate and given as a guide only. These times can vary due to prevailing site conditions. At lower temperatures curing times will be extended. If the over coating interval of 24 hours is extended, the first coat should be abraded to ensure inter-coat adhesion.

Coverage

A minimum of two coats are required. Additional coats may be required depending on the nature of the substrate and the end use.

Coverage*	m ² /kg/coat
Average substrate	7 - 9
Porous/uneven substrates	5 - 7

*Coverage figures given are theoretical. Practical coverage rates may vary due to wastage factors and the type, condition, profile and porosity of the substrate. Prevailing site conditions will also affect the coverage. It is always advisable to put down a test panel of the system if the coverage rate is in doubt, especially on a large project to assess correctly the affect of substrate porosity and texture.

Application Conditions

Pumaseal PC contains solvents and should only be used in well ventilated areas. The maximum substrate and atmospheric relative humidity should be 75%. For best results, substrate and air temperature should be in the range 15 °C to 25 °C. The material can be applied at temperatures as low as 5 °C but lower temperatures will reduce coverage, make application more difficult and extend cure times. The climate above the uncured floor should be maintained at least 3 °C above the dew point for at least 48 hours after application.

Surface Preparation

The surface to be coated must be clean, dry and free from oil, grease and loose material or any other contamination that may impair adhesion or wetting out. In coatings, there is a tendency for the finish to mirror imperfections in the substrate. For concrete substrates, grinding or light vacuum contained shot-blasting is therefore preferred over planing for these systems. Refer to the **Resdev Guide to Surface Preparation**.

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Mixing

Add the hardener component to the coloured resin component and mix using a low speed electric mixer (200 - 500 rpm) for at least 3 minutes until homogeneous. Keep the mixing head fully submerged to avoid air entrainment. Use a spatula to scrape the sides and bottom of the mixing vessel several times as unmixed material will result in uncured patches in the final finish.

Application

Apply with a medium pile simulated sheepskin roller working well into the surface. Edges and difficult to reach areas may be applied thinly by brush. Plan the work area to maintain a wet edge and work within the working time of the material. Avoid pooling the material as this will lead to soft spots.

Chemical Resistance

Pumaseal exhibits good chemical resistance to a wide range of chemicals. However, it is not recommended as a chemical resistant finish. Floor seals can be readily damaged by impact and chemicals can then attack the concrete from beneath the seal.

Tool Cleaning

Tools and equipment should be cleaned whilst the resin is still wet with a suitable solvent.

General Maintenance

Pumaseal PC can be easily cleaned using industry standard cleaning chemicals and techniques designed for epoxy resin flooring. Test cleaning agents prior to use. Do not steam clean or subject to temperatures in excess of 50 °C.

Precautions

Ensure adequate ventilation during application and curing. As will all high gloss paint finishes, scratching of the surface may occur with use due to surface contamination and abrasion. In common with all smooth floor finishes, **Pumaseal PC** may become slippery under certain conditions. In areas of chemical spillage, please consult our Technical Department for specific advice.

Technical Advice

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

Health and Safety

Before using this product, please ensure that you have received and read the product Safety Data Sheet. Refer to hazard labelling on the product. Wear gloves and avoid contact with skin and eyes.

EU Directive 2004/42/EC

Complies with category j type SB (< 500 g/l).

Storage


Materials should be kept dry and stored in a weatherproof building maintained at 15 °C to 25 °C on pallets and away from walls. Consignments should be used in order of batch number. Protect from frost.

Shelf Life *

12 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 >75% 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.

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		13	DOP RV0041/42
EN 13813 SR-B2,0-AR0,5-IR10 Synthetic resin screed material for use internally in buildings not subject to reaction to fire regulations			
Reaction to fire	NPD	Impact resistance	IR10
Release of corrosive substances	SR	Sound insulation	NPD
Water permeability	NPD	Sound absorption	NPD
Wear resistance	AR0,5	Thermal resistance	NPD
Bond strength	B2,0	Chemical resistance	NPD

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