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Polyurethane floor sealer

Flowseal PC

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

Flowseal PC has an extremely high abrasion resistance and will withstand heavy traffic for prolonged periods. It is considerably superior to conventional oil and water based floor paints.

Interior **Roller-applied** **Easy to clean**

FeRFA Classification

BS 8204 Type 1.

Appearance

Available in coloured gloss or silk finishes.

*Flowseal 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.

Advantages

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

Pack Size

5 kg and 10 kg units.

Components

Each unit of Flowseal PC comprises of: one part Resin and one part Hardener.

Suitable Substrates

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

Typical Installations

Flowseal 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.

VIRTUS RESINS
The Shippon, Faenol
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Chemical Resistance

Flowseal PC 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.

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 ºC*

BS 8204-6 Type 1
Adhesion to concrete (BS EN 1504-2) > 1.5 MPa
(concrete failure)

*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.

Cure Schedule at 20 ºC*

Working life of full packs**	30 minutes

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

Inter-coat Period	6-24 hours
Foot Traffic	16 hours
Full Cure	7 days

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

*These 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.

Pack Size

5 kg and 10 kg units.

Coverage*

Average Substrate - 8-10 sqm per coat per kg. Apply 2 or 3 coats Flowseal at an average rate of 9 sqm. per kg.

Porous Uneven Substrates - 6-8 sqm per coat per kg. Apply 2 or 3 coats Flowseal at an average rate of 7 sqm. per kg

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

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 Virtus Guide to Surface Preparation.

Application Conditions

Flowseal 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.

Priming

Flowseal PC does not usually require a primer but on well compacted non-porous concrete, an addition of 20% Flowsolve is recommended to assist penetration of the first coat.

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.

LIMITATIONS: Do not proceed with application if atmospheric relative humidity is, or is anticipated to be >75% or if the surface temperature is <3 ºC above the dew point. Application should not commence when the substrate temperature or the ambient temperature is, or is anticipated to be <10 ºC during the application or within the curing period.

Tool Cleaning

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

General Maintenance

Flowseal 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.

Health and Safety

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, Flowseal PC may become slippery under certain conditions. In areas of chemical spillage, please consult our Technical Department for specific advice. 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.

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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.

*Do not proceed with application if atmospheric relative humidity is, or is anticipated to be >75% or if the surface temperature is <3 ºC above the dew point. Application should not commence when the substrate temperature or the ambient temperature is, or is anticipated to be <10 ºC during the application or within the curing period.

Technical Advice

For further information on this or any other Virtus 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.

You Might Also Need:

- Resin Painting Kit
- Mixing Drill Attachment

Virtus Resins, The Shippon, Pentre-Celyn, Ruthin LL15 2SP, England		
CE	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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Flowseal Colour Chart

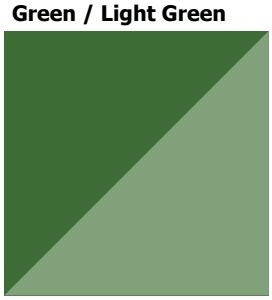
Midnight Blue*

Chelsea Blue

Mid Blue

Light Blue

Green / Light Green

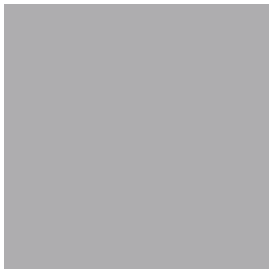


Buff

Sahara

Yellow

Light Grey



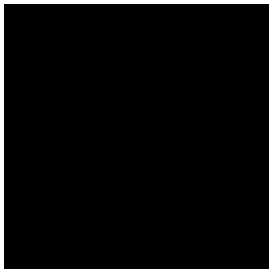
Mid Grey

Dark Grey

Tile Red

Charcoal

Black



Safety Red / Yellow*

The colours shown may differ from the original product due to reprographic and technological media variations. The same colour in different products may also vary due to the composition and texture of the final finish.

Samples: If colour and final aesthetics are of concern, please contact us to request an actual hard sample of the colour and system required.

*** Surcharge applies**

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