

Flowdur PAS Clear is a clear, two-component solvent free polyaspartic floor coating.

Flowdur PAS Clear provides a UV-resistant, tough, hard wearing coating for use over decorative flake or quartz broadcast systems.



Ecological



Chemical-resistant



Strong



Fast-curing

FeRFA Classification

BS 8204-6 Type 3

Appearance

Clear, high gloss finish.

Advantages

- ✓ Fast cure, ultra-quick return-to-service
- ✓ 100% solids. VOC free
- ✓ Excellent UV resistance
- ✓ Highly transparent
- ✓ Low viscosity
- ✓ Gloss, easy to clean finish
- ✓ Extremely durable & impermeable finish

Uses

As a seal coat on highly decorative flake or quartz flooring systems.

Pack Size

2.5 and 5 kg units.

Components

Flowdur PAS Clear comprises of: one part Resin and one part Hardener.

VIRTUS RESINS

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virtusresins
Epoxy resin suppliers

Thickness

200 microns per coat depending on specification.

Chemical Resistance

Good Chemical Resistance, please consult us on specific materials.

Typical Properties, 28 days at 20 °C*

BS 8204-6	Type 3
Bond strength (BS EN 13892-8) (concrete failure)	> 3.0 N/mm ²
Impact resistance (BS EN ISO 6272-1)	4.4 Nm
Wear resistance (BS EN 13892-5)	< 50 µm
Hardness (Shore D)	67

* 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 °C*

Over coating time	90 minutes - 12 hours
Cure time to pedestrian traffic	~ 4 hours
Cure time to light wheeled traffic	~ 8 hours
Full cure	~ 5 days

If the over-coating window is exceeded then the coating must be abraded to ensure inter-coat adhesion. The floor should be protected from contact with water for at least 3 days after application.

The material should be protected from water for 7 days.

* The above cure times are approximate and given as a guide only. These times can vary due to prevailing site conditions including film thickness, temperature and humidity. At lower temperatures or low humidity, curing times will be extended. Thicker films will take significantly longer to cure.

Pack Size

2.5 and 5 kg units

Coverage

The coverage rate will vary depending on the texture and porosity of the substrate, film thickness and application technique. Two coats may be required to avoid missed spots. The mixed density of the material is approximately 1100 kg/m³

As a guide, an application rate of 3.6 to 4.5m²/kg will produce a film thickness of 200 to 250 microns on smooth, non-porous surfaces and thoroughly de-nibbed and sanded flake systems.

On textured surfaces such as 0.4 - 0.8 mm coloured quartz, typical coverage rates of 2.0 to 3.0 m²/kg may be expected. Do not apply at thicknesses greater than 250 microns as these films will take significantly longer to through cure.

Pot Life

Material Temperature	Working Time*
10 °C	~ 30 minutes
20 °C	~ 20 minutes
30 °C	~ 10 minutes

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

Mixed material must be used immediately. When mixed, a chemical chain reaction takes place which creates heat and further reduces pot life. High ambient temperatures and humidity will reduce pot life. Low temperatures and humidity increase curing time.

Application Conditions

Flowdur PAS Clear may be applied between 10 °C and 30 °C. However, for best results, substrate and air temperature should be in the range 15 °C to 25 °C otherwise workability and cure rate may be impaired. Localised heating or cooling equipment may be required outside this range to achieve ideal temperature conditions. To reduce the risk of "blooming" or poor inter-coat adhesion caused by condensation, the climate above the uncured floor and the substrate should be maintained at least 3 °C above the dew point during application and for at least 48 hours after application. In any case, the ambient relative humidity should be between 30% and 75% during application and cure. Do not apply when ambient and substrate temperatures are rising otherwise pinholes may occur.

Surface Preparation

The surface to be coated must be clean, dry and free from oil, grease, dust and loose material or any other contamination that may impair adhesion or wetting out.

High or low spots should be removed or repaired before proceeding. Remove excess flakes or aggregates from the surface by sweeping followed by vacuum. The use of light sanding is recommended for flakes to remove flakes standing proud.

When applied to a smooth resin finish it is possible that Flowdur PAS Clear may fish-eye due to surface tension. Lightly abrading the surface followed by solvent wiping may cure this problem. If in doubt, apply a trial area of the system before specifying.

IMPORTANT: Humidity in the atmosphere is required for the successful cure of polyaspartic based coatings. As a result, polyaspartic coatings will take a significant amount of time to through cure if applied in excess of the recommended film thickness (250 microns). It is especially important to ensure that the substrate is flat and defect free so that material does not pool in excess of the recommended film thickness.

Aesthetic Limitations

As with all high gloss paint finishes, scratching of the surface may occur with use due to surface contamination and abrasion. Entrance matting and an effective cleaning regime will reduce these effects.

The use of Flowdur PAS Clear may not prevent discolouration of underlying coatings on exposure to UV light.

Be aware that settlement of dust, hairs, fluff etc. can impair the visual appearance of the finish.

Mixing

Materials should be conditioned at 15 °C to 25 °C for 24 hours prior to use. Pre-mix the resin component as there will be slight settlement in the bottom of the container. Add the hardener component to the resin component and mix using a low speed electric mixer (300 - 500 rpm) fitted with a suitably sized Jiffy-style paddle for at least 3 minutes until homogeneous. Keep the mixing head fully submerged to avoid air entrainment. Use a straight edged 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. Do not add solvent/thinners to the product.

Important: Both liquids are pre-weighed and designed to be mixed together in their entirety. It is essential that the full amounts are mixed together and until homogenous to ensure the product cures correctly and to the desired finish.

Application

Squeegee and back-roll to provide a uniform film of 200 to 250 microns and avoid pooling. Use a cross-rolling technique to ensure even coverage. If required, repeat the procedure for a second coat. 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. Due to the rapid cure, roller sleeves should be changed regularly (at least every hour).

Tool Cleaning

Tools and equipment should be cleaned whilst the resin is still wet using Flowsolve. Flowdur PAS Clear can be easily cleaned using industry standard cleaning chemicals and techniques designed for synthetic resin flooring. Test cleaning agents prior to use. Do not steam clean or subject to temperatures in excess of 50 °C.

Floor Maintenance

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

EU Directive 2004/42/EC

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

Health and Safety

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

Storage

Materials should be kept dry and stored in a weatherproof building maintained at 15 °C to 20 °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.

Technical Advice

For further information please contact our office.

Availability

3 - 5 working days. **Country of Manufacture:** United Kingdom

You Might Also Need:

- Resin Painting Kit
- Mixing Drill Attachment

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

Virtus Resins, The Shippon, Pentre-Celyn, Ruthin LL15 2SP, England			
CE		15	DOP RV0083
EN 13813 SR-B2,0-AR0,5-IR > 4 Synthetic resin screed material for use internally in buildings			
Reaction to fire	E _{fl} ⁽¹⁾	Impact resistance	> IR4
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

(1) 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_{fl} without need for further testing.

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