

Flowepoxy is a medium duty flow applied epoxy floor topping for use on concrete and polymer modified cementitious screeds.

Flowepoxy is designed with the highest order of durability, impact, abrasion and chemical resistance. Its easy to clean, smooth, gloss finish makes the product ideal for environments such as the food, beverage, engineering and chemical industries.

Flowepoxy is ideal for clean rooms, retail showrooms, schools, hospitals and hotels.



Chemical-resistant



Strong



Hygienic



Flow-applied

FeRFA Classification

BS 8204-6 Type 5

Colours*

Available in a range of different colours. Please consult Colour Chart.

* Flowepoxy 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 will be more pronounced with lighter colours and blue shades and does not compromise the product's performance or chemical resistance characteristics.

Appearance

Seamless, smooth, gloss finish. 2-3 mm thick.

Advantages

- ✓ Flow-applied rapid installation
- ✓ Resistant to general chemical spillages
- ✓ Durable and non-dusting
- ✓ High wear and abrasion resistance
- ✓ Easy to clean
- ✓ Flowepoxy is resistant to cleaning up to 60°C
- ✓ Anti-static option available.

Suitable Substrates

Concrete and polymer-modified cementitious screeds

Uses

- ✓ Food and beverage
- ✓ Retail and car showrooms
- ✓ Chemical industries
- ✓ Schools
- ✓ Hospitals
- ✓ Hotels

Pack Size

31 kg unit.

Components

Flowepoxy comprises of:

- 1 x Resin
- 1 x Hardener
- 1 x Aggregate

VIRTUS RESINS

The Shippon, Faenol

Pentrecelyn

Ruthin LL15 2SP

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**virtusresins**
Epoxy resin suppliers

Thickness

Applied at 2-3 mm thickness.

Chemical Resistance

Good Chemical Resistance, please consult us on specific materials.

Typical Properties, 28 days at 20 °C

BS 8204-6	Type 5
Adhesion to concrete (BS EN 1504-2) (concrete failure)	>1.5 MPa
Mixed density	1.8 kg/litre
Shore D hardness	72
Slip Resistance (BS 7976-2)	Dry > 40 Low Slip Potential

* 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

Working life of full packs*	25 minutes
Finished floor**	
Light foot traffic	24 hours
Heavy Duty Traffic	48 hours
Full Cure	7 days

The material should be protected from water for 7 days.

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

** The above cure times are approximate and given as a guide only. These times can vary due to prevailing site conditions. Higher temperatures will shorten working time and lower temperatures will extend cure times.

Pack Size

31 kg.

Coverage*

3.6 kg/m² at 2 mm or 5.4 kg/m² at 3 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.

Priming

Flowepoxy requires 2 coats of Flowprime SF prior application.

Application Conditions

Ideal ambient and substrate temperature range is 15-25°C. Localised heating (electric powered warm air blower) 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. The surface strength of the concrete base or screed assessed using a rebound hammer in accordance with BS 1881-202 should be above 25 and the surface tensile strength should exceed 1.5 N/mm². An effective structural damp proof membrane should be present and the relative humidity at the surface no more than 75% when measured by the method of BS 8203. New concrete should be a minimum of Grade C35 with a minimum cement content of 300 kg/m³ and should not contain a water repellent admixture.

Surface Preparation

Inadequate preparation will lead to loss of adhesion and failure. In flow applied systems there is a tendency for the finish to mirror imperfections in the substrate.

Grinding, or light vacuum-contained shot-blasting is therefore preferred over planing for these systems. Percussive scabbling or acid etching is not recommended. The substrate should be finished to a surface regularity when tested according to BS 8204-1 of class SR1 otherwise a scratch coat will be required.

Refer to the **Virtus Guide to Surface Preparation** for further information.

Mixing

Prior to mixing, the temperature of the three components must 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 (200 - 500 rpm) for 1 - 2 minutes until homogeneous. Decant the mixture into a suitable mixing vessel and gradually add the aggregate component whilst continuing the mixing action. When all the aggregate has been added, mix for a minimum of 3 minutes until a uniform coloured, lump-free mix is obtained. Care should be taken to ensure that any material adhering to the sides, bottom and corners of the mixer is thoroughly blended in. Unduly extended or vigorous mixing should be avoided in order to minimize air entrainment.

Application

Priming:

Priming should be carried out using **Flowprime SF** at 5 - 8 m²/kg depending on substrate porosity. Apply using a medium nap roller ensuring complete coverage and avoiding pooling. If, when cured, there are dry patches, a further primer coat is required. Allow to cure completely before proceeding. If the primer has been left to cure for >48 hours then the primer surface should be mechanically abraded and the area re-primed. Failure to do so may result in pin-holing of the surface topping.

Application of Flowepoxy:

Apply the mixture immediately onto pre-primed areas, spread to the required thickness using a steel float then de-aerate using a spiked roller. Continue spiked rolling until air is released finishing well before the material begins to gel. The cured product should be protected from other trades using Kraft paper or similar breathable material. Polythene should not be used.

Protect the installed floor from dust, traffic, damp, condensation and water for at least 24 hours or longer at colder temperatures.

Cleaning:

Regular cleaning is essential to enhance and maintain the life expectancy, slip resistance and appearance of the floor. Flowepoxy can be easily cleaned using industry standard cleaning chemicals and techniques. Consult your cleaning chemical and equipment supplier for more information.

Health and Safety

Before using this product, please ensure that you have received and read the product Safety Data Sheet.

EU Directive 2004/42/EC

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

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.

Limitations

Do not proceed with application if atmospheric relative humidity is, or is anticipated to be, >80% 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 Manufacture of **Flowepoxy** is a batch process and despite close manufacturing tolerances, minor variations in shade 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.

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Availability

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

Technical Advice

For further information please contact our office.

You Might Also Need:

- Self-leveller Kit
- Mixing Drill Attachment
- Flowprime SF

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		13	DOP RV0038
EN 13813 SR-B2,0-AR0,5-IR14 Synthetic resin screed material for use internally in buildings not subject to reaction to fire regulations			
Reaction to fire	NPD	Impact resistance	IR14
Release of corrosive substances	SR	Sound insulation	NPD
Water permeability	NPD	Sound absorption	NPD
Wear resistance	AR1,0	Thermal resistance	NPD
Bond strength	B2,0	Chemical resistance	NPD

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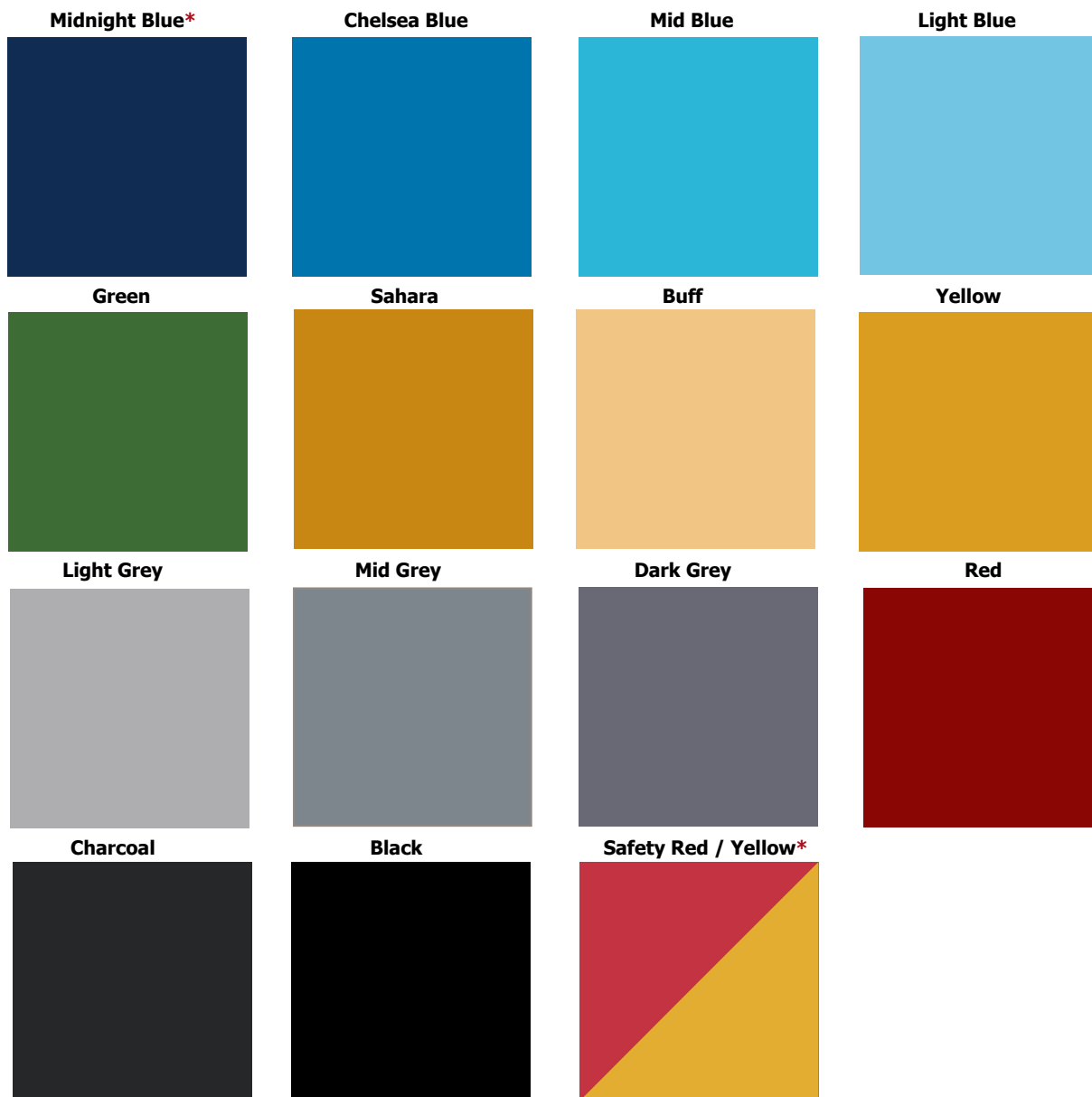
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The colours shown may differ from the original product due to reprographic and technological media variations. The same colour in different products may also vary due to the composition and texture of the final finish.

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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