

Strongcoat is a two-component virtually solvent free epoxy floor coating offering excellent abrasion and chemical resistance.

Strongcoat provides a tough, hard wearing coating for medium duty traffic giving high film build and wear resistance.



FeRFA Classification

BS 8204 Type 3.

Appearance

Clear gloss finish. Strongcoat Clear 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 then product's performance.

Advantages

- ✓ Highly transparent
- ✓ Low viscosity
- ✓ Virtually solvent free
- ✓ Non-dusting
- ✓ Gloss, easy to clean finish

Suitable Substrates

Concrete and polymer modified cementitious screeds.

Uses

For medium duty areas requiring an easy to clean, tough and durable coating with excellent chemical resistance such as warehouses, factories, workshops, showrooms, packing and storage areas. Can also be used as a sealcoat for broadcast systems such as Intermediate Car Park Decks. Strongcoat is suitable for regular foot traffic, light duty fork lift truck traffic and occasional hard plastic-wheeled trolleys.

Pack Size

2.5 and 5 kg units.

Components

Each unit of Strongcoat comprises of: one part Resin and one part Hardener.

Project References

Airport Fire station in Hampshire, Selhurst Train Depot.

VIRTUS RESINS

The Shippon, Faenol
Pentrecelyn
Ruthin LL15 2SP

Tel: 01978 790 744

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Thickness

Approximately 200 microns (0.2 mm) from one coat.

Chemical Resistance

Good Chemical Resistance, please consult us on specific materials.

Slip Resistance

Note: The slip resistance of a floor surface can vary as a result of the installation process, conditions at the time of application and subsequent traffic. Inappropriate cleaning or maintenance can adversely affect the performance. For further advice on potential wet areas please contact us.

Typical Properties, 28 days at 20 °C*

BS 8204-6	Type 3
Adhesion to concrete (BS EN 1504-2) (concrete failure)	>1.5 MPa

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

Finished floor*

Over coating time	16 - 36 hours
Cure time to pedestrian traffic	24 hours
Full chemical resistance	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 36 hours is extended, the first coat should be abraded to ensure inter-coat adhesion.

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 avoid missed spots. As a guide, an application rate of 4 m²/kg will produce a film thickness of 225 microns on smooth, non-porous surfaces.

* 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

Strongcoat is a relatively viscous coating. Do not apply outside of the range 15 °C to 25 °C. Localised heating or cooling equipment may be required outside this range to achieve ideal temperature conditions.

To reduce the risk of “bloom” caused by condensation, 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.

When applied to a smooth resin finish, it is possible that **Strongcoat Clear** may reticulate or 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.

Application

Best results are obtained in warm conditions (minimum 15 °C). Apply with a medium pile simulated sheepskin roller working well into the surface taking care not to exceed the coverage rate. 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.

Mixing

Materials should be stored at 15 °C to 25 °C for a minimum of 8 hours prior to use. 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 at least 3 minutes until homogeneous. 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.

Pot Life

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 will reduce pot life.

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.

Cleaning

Tools and equipment should be cleaned whilst the resin is still wet with a suitable solvent. Strongcoat 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 60 °C.

Health and Safety

Refer to product Safety Data Sheet before use.

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.

Precautions

Remove food products from the area during application and curing. As with 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, Strongcoat Clear may become slippery under certain conditions. In areas of chemical spillage, please consult our Technical Department for specific advice.

EU Directive 2004/42/EC

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

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. The manufacture of Strongcoat 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.

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.

Availability

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

You Might Also Need:

- Resin Painting Kit
- Mixing Drill Attachment
- Decorative Pigments/Flakes/Glitter

Virtus Resins, The Shippon, Pentre-Celyn, Ruthin LL15 2SP, England			
CE		13	DOP RV0032
EN 13813 SR-B2,0-AR0,5-IR5 Synthetic resin screed material for use internally in buildings not subject to reaction to fire regulations			
Reaction to fire	NPD	Impact resistance	IR5
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

Disclaimer: FeRFa (The Resin Association) do not consider anhydrite, hemi-hydrate, and calcium sulphate screeds to be suitable for overlayment with resin floor finishes.

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