

Flowrend LW is a lightweight epoxy mortar which is readily applied to vertical surfaces. The high resin content of Flowrend LW permits the application of large volumes of the mortar without the need for stress release joints in areas such as continuous coving, gulleys and structural repairs to concrete. The lightweight nature of the mortar enables the formation of coving and wall rendering without the need for shuttering. Flowrend LW is ideal for coving, plinths and bases, drain linings and bunds.



Strong



Trowel-applied



Appearance

Lightly textured coloured finish.

Colours

Flowrend LW is available in a range of standard colours.

Note: Flowrend LW is not 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

Pack Size

23.48 kg unit.

Components

Each unit comprises of: one part Resin (Base), one part Hardener and one part Bulking agent. All components are pre-weighed and ready to mix.

Uses

Flowrend LW is used to form chemically resistant coving, fillets, gulleys, wall finishes, drainage systems etc. it is used in conjunction with Virtus epoxy resin flooring to produce a totally seamless finish. Flowrend LW is also used for repairing voids in concrete beams, pre-cast units, concrete structures and stonework.

Suitable Substrates

Flowrend LW adheres well to concrete, grano and metals. It is also ideal for application over rough brickwork and breezeblock.

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Epoxy resin suppliers

Thickness

Typically 2 - 25 mm.

Pack Size

23.48 kg unit.

Coverage:

Approximately 1.47 kg/m² is required per 1 mm thickness. For example, as a wall render at 4 mm thickness, 5.88 kg/m² is required plus wastage. Coving requires additional product to infill the radius, the exact quantity depending on the coving size

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

Typical Properties, 7 days at 23 °C

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

Note: 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**	
Setting Time	12 hours
Full Cure	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.

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.

Surface Preparation

Inadequate preparation will lead to loss of adhesion and failure. Substrates should be clean, dry, sound and free of surface laitance. See the Virtus Guide to Surface Preparation for further information.

Priming

Flowrend LW should be applied into tacky Flowprime TC (typically 45 - 60 minutes after application). If, prior to application of Flowrend LW, there are dry patches, a further primer coat is required. If the primer has been left to cure for >48 hours then the primer surface should be mechanically abraded and the area re-primed.

Mixing & Application

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 rotary drum mixer and add the aggregate component in stages, mixing for a minimum of 3 minutes until a uniform coloured, lump-free mix is obtained. Apply the mixture immediately onto pre-primed areas using a coving trowel to form skirting if required. Avoid excessive tooling which may lead to 'trowel burn'.

Sealing

Due to the dry nature required of rendering products, Flowrend LW shows a lower colour strength than flooring materials and colour density may vary throughout an installation. Where a closer colour match is required or where Flowrend LW requires sealing, for example, in wet areas or where chemical spillages are likely, Strongcoat V should be applied within 24 hours of application. See separate technical datasheet.

Typical Requirements

1. Flowprime TC @ 200-300 g/m²
2. Flowrend LW @ 1.47 kg/m² per 1 mm thickness
3. Strongcoat V @ 4.2 m²/kg
4. Strongcoat V @ 5.5 m²/kg

Cleaning

Regular cleaning is essential to enhance and maintain the life expectancy and appearance of the product. Flowrend LW can be easily cleaned using industry standard cleaning chemicals and techniques, especially where sealed using Strongcoat V. Consult your cleaning chemical and equipment supplier for more information

Health and Safety

Refer to product Safety Data Sheet before use.

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 in sealed container (if stored in accordance with above recommendations).

Limitations

Do not proceed with application if atmospheric relative humidity is, or is anticipated to be > 85% 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 <0°C during the application or within the curing period.

The design strength of concrete surfaces must be a minimum of 25 MPa compressive strength at 28 days.

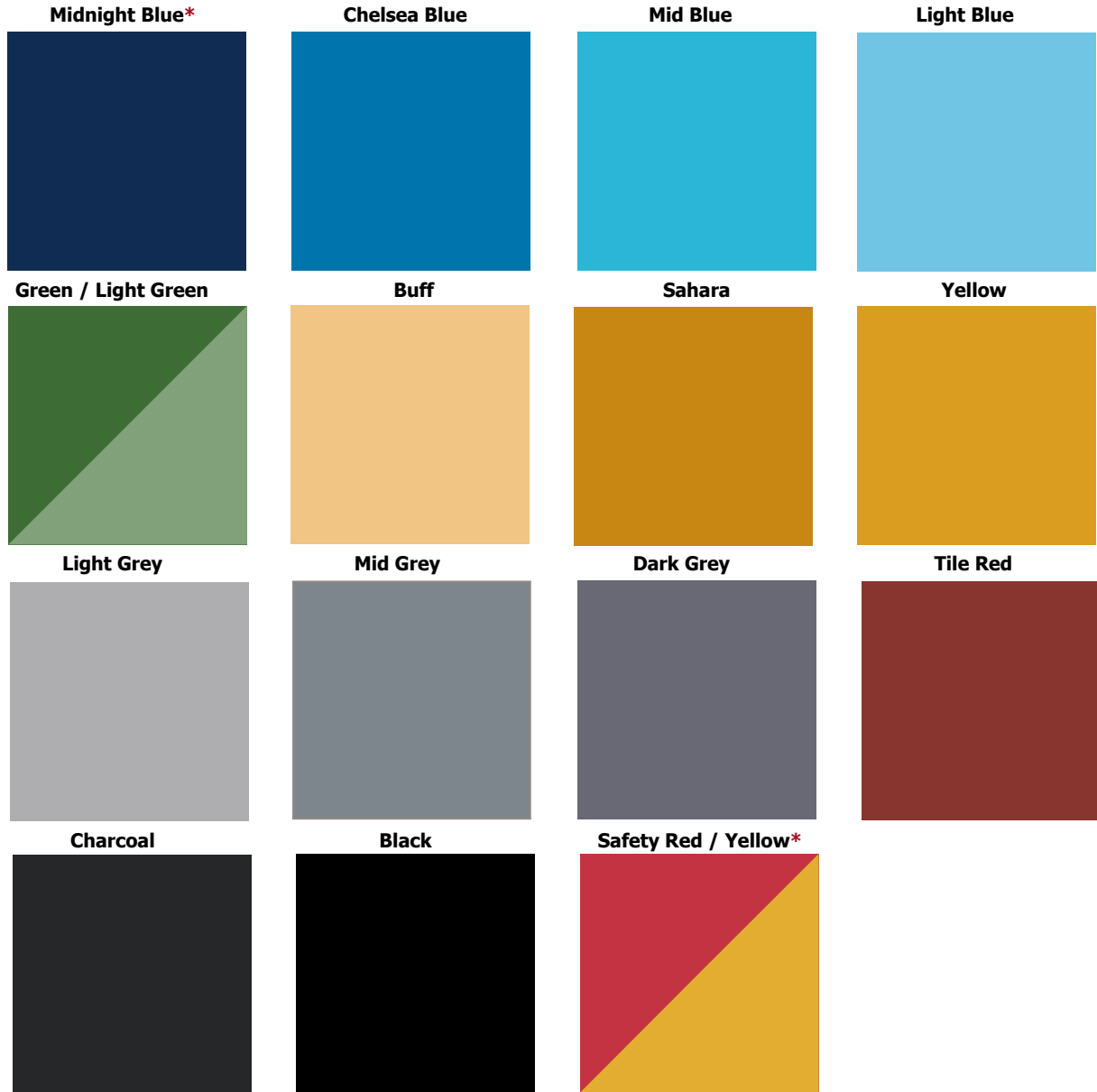
The manufacture of Flowrend LW is a batch process and despite close manufacturing tolerances, minor variations in shade may occur between batches. Products from different batches should not be used on the same surface or surfaces close together. If mixed batches are unavoidable, it is best practice to 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.

Virtus Resins, The Shippon, Pentre-Celyn, Ruthin LL15 2SP, England			
CE		13	DOP RV0023
EN 13813 SR-B1,5 Synthetic resin screed material for use internally in buildings not subject to reaction to fire regulations			
Reaction to fire	NPD	Impact resistance	NPD
Release of corrosive substances	SR	Sound insulation	NPD
Water permeability	NPD	Sound absorption	NPD
Wear resistance	NPD	Thermal resistance	NPD
Bond strength	B1,5	Chemical resistance	NPD



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