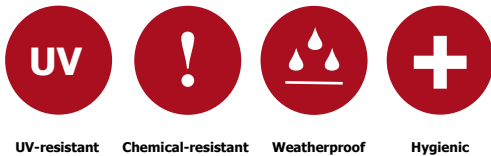


Line Marker is a UV stable, two component, solvent borne polyurethane sealer and coating specifically designed for external applications. The cured material is extremely resistant to adverse weather conditions, solvents and other aggressive chemicals. Generally used as a final, weather resistant coating to mark resin based systems, ceramic tiles, quarry tiles or mineral substrates such as concrete. The exceptional solvent resistance means that graffiti can simply be cleaned off using a suitable solvent or graffiti remover.



## FeRFA Classification

Type 1/2

## Colours

Is available as a clear finish or in a range of 12 standard colours, other RAL and British Standard colours are available upon request.

## Appearance

Gloss, Silk or Matt finish.

## Advantages

- ✓ Weatherproof (aliphatic)
- ✓ Chemical resistant (Skydrol)
- ✓ UV resistant and UV stable
- ✓ Anti-graffiti (gloss versions)
- ✓ Protection in hostile environments

## Suitable Substrates

Concrete and polymer modified cementitious screeds, plasterboards, steel surfaces.

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

## Uses

- ✓ Laboratories
- ✓ Chemical Plants
- ✓ Electronics Assembly
- ✓ Warehousing
- ✓ External Areas
- ✓ Commercial Areas

## Pack Size

2.5 and 5 kg units. Each unit of Line Marker comprises of: one part Resin and one part Hardener.

## VIRTUS RESINS

The Shippon, Faenol  
Pentrecelyn  
Ruthin LL15 2SP

**Tel:** 01978 790 744

**Tel:** 0843 289 8422

**Email:** [info@epoxyresinsuppliers.co.uk](mailto:info@epoxyresinsuppliers.co.uk)

**[www.epoxyresinsuppliers.co.uk](http://www.epoxyresinsuppliers.co.uk)**

## Thickness

Approximately 60 - 75 µm per coat.

## Chemical Resistance

Exceptional chemical resistance, please consult us on specific materials.

## Slip Resistance

Good 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.

## Cure Schedule at 20 °C\*

Working life of full packs	40 minutes
Over-coating time (minimum)	16 hours
Over-coating time (maximum)	36 hours
Light foot traffic	12 hours
Light wheeled traffic	24 hours
Full traffic	48 hours
Full Cure	7 days

If the maximum over-coating time is exceeded the coating should be mechanically abraded thoroughly and re-coated.

\* 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

2.5 and 5 kg units

## Coverage\*

Coverage*	m <sup>2</sup> /kg
Line Marker (Gloss)	5.5 - 7
Line Marker (Silk)	5 - 6.5
Line Marker (Matt)	4.5 - 6

\* Coverage figures given are theoretical. Practical coverage rates may vary due to wastage factors and the type, condition, profile and porosity of the substrate. Prevailing site conditions will also affect the coverage. It is always advisable to put down a test panel of the system if the coverage rate is in doubt, especially on a large project to assess correctly the affect of substrate porosity and texture.

## Application Conditions

The ideal ambient, substrate and material temperature range is 15 - 20 °C. Localised heating or cooling equipment may be required outside this range otherwise the surface finish may be impaired.

The maximum substrate and atmospheric relative humidity should be 75%. 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

### Cementitious Substrates

All substrates must be protected by an adequate and effective DPM. Inadequate preparation will lead to loss of adhesion and failure. 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.

### Steel Substrates

Steel surfaces should be prepared to SA 2 ½ standard and coated immediately to prevent flash rusting.

## Mixing

Prior to mixing, the temperature both components should be between 15 and 20 °C. Add the hardener component to the coloured resin component and mix using a low speed electric mixer (300 - 400 rpm) for at least 3 minutes until homogeneous. Keep the mixing paddle fully submerged to avoid the entrapment of air and scrape the sides and bottom of the vessel several times.

**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

Can be applied by brush, short-nap roller or spray at a nominal rate of 0.15 kg/m<sup>2</sup>. After a minimum of 16 hours and before a maximum of 48 hours, apply a second coat at the same rate. A test area should be considered to establish coverage rates. Coverage rates will vary over a textured surface.

Ensure that material is not applied more than once or overlapped in any area and apply in one direction only. If the thickness of the applied material is uneven, the surface may have an uneven appearance due to differences in gloss. Avoid pooling as this will lead to solvent entrapment and un-cured areas.

**Note!** Care should be taken when applying the material that a wet edge is maintained and that application is completed within the open time of the material. It is extremely important that the wet film thickness of the coating is constant throughout the application and rolling onto partially cured material and applying material more than once is avoided, this can result in an uneven or patchy finish of the coating system. Apply the material in one direction only and avoid ponding as this can create solvent entrapment and uncured areas of material.

# Technical Data

Do not apply subsequent coats until the previous coat is cured. This will depend on temperature, atmospheric humidity and degree of ventilation. Adequate ventilation and air movement is necessary.

If applying by spray, suitable respiratory protective equipment should be worn by all exposed persons. If, when cured, there are dry patches, a further coat may be required.

## 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.

## Cleaning

Regular cleaning is essential to enhance and maintain the life expectancy and appearance of the product. Line Marker can be easily cleaned using industry standard cleaning chemicals and techniques. Consult your cleaning chemical and equipment supplier for more information. Silk coatings have a tendency to soil quicker than gloss coatings as the surface has a micro-texture.

## 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.

## Shelf Life

12 months if stored in accordance with the above recommendations.

## Limitations

- Safety Red and Safety Yellow colours may need a two coat application to achieve full opacity dependant on site conditions.
- Product should be protected from other trades using Kraft paper or similar breathable material. Polythene should not be used.
- Protect the installed floor from damp, condensation and water for at least twenty-four hours at 20°C.
- Ensure that the ambient temperature remains above 10 °C for at least twenty-four hours after installation.
- The substrate and uncured floor must be kept at at least 3 °C above the dew point to reduce the risk of condensation or blooming on the surface.

- 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.

The manufacture of Line Marker is a batch process and despite close manufacturing tolerances, colour variation 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
- Flowprime DPM (for damp concrete)

Virtus Resins, The Shippon, Pentre-Celyn, Ruthin LL15 2SP, England			
CE	13	DOP RV0003/5/6	
EN 13813 SR-B2,0-AR0,5-IR20 Synthetic resin screed material for use internally in buildings not subject to reaction to fire regulations			
Reaction to fire	NPD	Impact resistance (Silk)	IR8
Release of corrosive substances	SR	Impact resistance (Gloss)	IR7
Water permeability	NPD	Sound insulation	NPD
Wear resistance	AR0,5	Sound absorption	NPD
Bond strength	B2,0	Thermal resistance	NPD
		Chemical resistance	NPD

## VIRTUS RESINS

The Shippon, Faenol

Pentrecelyn

Ruthin LL15 2SP

**Tel:** 01978 790 744

**Tel:** 0843 289 8422

**Email:** [info@epoxyresinsuppliers.co.uk](mailto:info@epoxyresinsuppliers.co.uk)

**[www.epoxyresinsuppliers.co.uk](http://www.epoxyresinsuppliers.co.uk)**



Most products are available in a range of standard colours with some non-standard or custom RAL colours available upon request (subject to surcharge and production availability). Unit prices quoted are as per the standard colour ranges in current colour charts and product data with the exception of Safety Red, Safety Yellow and Midnight Blue whereupon a 10% surcharge will apply. The colours shown may differ from the original product due to reprographics 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.