

Flowdur Primer is a two-component virtually solvent free flexible polyurethane primer. The long open time and polyurethane technology allows priming of virtually any substrate and allows bonding to occur with both epoxy and polyurethane toppings. Unlike many other primers, Flowdur Primer is flexible which can compensate for movement in the substrate.



Easy to apply



Flexible

## Colours

Standard grey.

## Appearance

Seamless, smooth finish. Applied in 2 coats.

## Advantages

- ✓ Flexible
- ✓ Low viscosity - penetrates the substrate
- ✓ Seals concrete pores - reduces the potential for out gassing and pin holing in resin floor finishes
- ✓ Improves the adhesion of toppings to the substrate
- ✓ Easy to mix and apply

## Pack Size

5 kg and 10 kg units.

## Components

Flowdur Primer comprises of:

- 1 x Resin
- 1 x Hardener

## Suitable Substrates

Thoroughly prepared concrete, polymer modified sand and cement screeds, steel, brickwork, block work and timber.

## VIRTUS RESINS

The Shippon, Faenol

Pentrecelyn

Ruthin LL15 2SP

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**virtusresins**  
Epoxy resin suppliers

## Typical Properties, 28 days at 20 °C\*

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

\* 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**	
Over-coating time	8 - 36 hours

\* 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

5 and 10 kg units.

## Coverage\*

Coverage varies widely due to the porosity and profile of different substrates. As a guide:

Rough porous concrete - 175g/m<sup>2</sup>  
Average finish - 125g/m<sup>2</sup>  
Smooth finish - 100g/m<sup>2</sup>

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

## Surface Preparation

The concrete substrate must be at least 28 days old, sound with a minimum compressive strength of 25 N/mm<sup>2</sup> and a minimum pull off strength of 1.5 N/mm<sup>2</sup>. The substrate must be clean, dry with a moisture content less than 5% (75% RH) and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. The substrate should be free from rising damp and ground water pressure and contain a functional damp proof membrane. Inadequate preparation will lead to loss of adhesion and failure. Grinding, vacuum-contained shot-blasting or planing is recommended depending on the final finish to be applied. Percussive scabbling or acid etching is not recommended.

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

### Oil and Grease:

For large areas of contamination, use hot compressed air treatment. Small, isolated contamination should be removed using an appropriate degreaser, rinsed thoroughly and allowed to completely dry. A coat of Flowprime OCT should then be applied (see separate datasheet).

## Application Conditions

Resin products should not be mixed and laid outside of the range 10 °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 "blooming" caused by condensation, the climate above the uncured floor should be maintained at least 3 °C above the dew point until subsequent toppings are applied.

## Mixing

Add the hardener component to the resin component and mix using a low speed electric mixer (200 - 500 rpm) fitted with a mixing paddle designed to minimize air entrainment for 1 - 2 minutes until homogeneous. Care should be taken to ensure that any material adhering to the sides and bottom of the mixing vessel is thoroughly mixed in otherwise uncured patches may result.

## Application

Once mixed the primer should be applied immediately in a thin continuous film. Work the primer into the surface using a stiff brush or roller avoiding pooling. On porous surfaces Flowdur Primer will be absorbed very quickly leaving dry patches. A second coat should be applied to these dry areas to ensure good adhesion and reduce the possibility of air release from the substrate causing bubbles or pin holing in the final topping.

## 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 (< 550 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 > 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 <10°C during the application or within the curing period.

## Availability

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

## Technical Advice

For further information please contact our office.

## You Might Also Need:

- Flowprime OTC
- Mixing Drill Attachment
- Resin roller

**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 RV0012	
EN 13813 SR-B2,0 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	B2,0	Chemical resistance	NPD

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