

Flowprime TC is a two-component virtually solvent free epoxy resin adhesive primer for use as a bonding aid for resin based screed compositions.

Flowprime TC is designed to be tacky to enable trowel applied resin screeds to be applied wet on wet giving a monolithic bond.



Easy to apply



Interior



Brush-applied



FeRFA Classification

N/A

Colours

Clear

Pack Size

1 kg, 2.5 kg and 5 kg units.

Components

Flowprime TC comprises of: one part Resin and one part Hardener. Both components are carefully pre-weighed and ready to mix.

Advantages

- ✓ Solvent free
- ✓ Low odour
- ✓ Excellent adhesion to damp concrete
- ✓ Low viscosity, easily applied

Uses

Flowprime TC is recommended on dry and damp surfaces where there is concern regarding the quality of the concrete, metal or other substrate being repaired. Flowprime TC is also used as an adhesive to bond new concrete to old and as an adhesive for polymer modified cementitious flooring. The chemical composition of Flowprime TC permits the resin to cure when in contact with water.

Suitable Substrates

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

VIRTUS RESINS

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Thickness

Approximately 200 microns from one coat.

Typical Properties, 28 days at 20 °C*

Adhesive strength 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
Over-coating time (minimum)	12 hours
Over-coating time (maximum)	36 hours

The topping must be applied when Flowprime TC is still tacky. At 20 °C this will be between 1.5 hours and 3 hours after the primer has been mixed. Work should be organised around this window. Colder temperatures will reduce the rate of cure and warmer temperatures will increase the rate of cure. Do not use below 10 °C. If the primer is allowed to become tack free, a further coat of Flowprime TC must be applied within 24 hours. If the over coating interval is exceeded, the first coat should be abraded to ensure inter-coat adhesion.

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

Pack Size

1 kg, 2.5 kg and 5 kg units.

Coverage

Coverage varies widely due to the porosity and profile of different substrates. As a guide, a coverage rate of 4 - 5.5 m² / kg should be estimated per coat depending on substrate quality.

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

Substrate Strength

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².

Surface Preparation

The concrete substrate must be at least 28 days old, sound with a minimum compressive strength of 25 N/mm² and a minimum pull off strength of 1.5 N/mm². 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 de-greaser, rinsed thoroughly and allowed to completely dry. A coat of Flowprime OT should then be applied.

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.

Important: Both components 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

Once mixed Flowprime TC should be applied immediately in a continuous film. Work the primer into the surface using a stiff brush, roller or trowel avoiding pooling. On porous surfaces Flowprime TC 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

Refer to product Safety Data Sheet before use.

Technical Advice

For further information on this or any other Virtus product, please contact our office.

Availability

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

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 >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.

You Might Also Need:

- Resin Painting Kit
- Mixing Drill Attachment

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 RV0016
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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