

# BUILDING CHEMICALS SPECIALISTS

## UNI - PRIMER

### 2 part Epoxy Primer

#### Product Data

**UNI - Primer** is a remarkably successful **Epoxy Resin Solvent Less Priming System** comprising a very simple to mix and use twin-pack coating which can be applied directly to concrete.

Further it offers a tough, resilient, impermeable brush/roller applied covering for protection of concrete floors.

Product is according to **European Standard EN 13813:2002 Screed materials and floor screeds - Screed materials - Properties and Requirements.**

#### Typical Uses

**UNI - Primer** is used for priming concrete substrates, cement screeds and epoxy mortars. It is used as a primer for **UNIGUARD, UNISHIELD SL, UNIFLOR, UNICRETE** e.t.c.

**UNI - Primer** has a wide resistance to inorganic acids, alkalies, salts, solvents, oils and greases etc. It is designed to obtain strong permanent adhesion to dry/damp/wet surfaces to a wide range of substrates including metal, concrete, brickwork etc.

Also by adding powder, an efficient patching compound for floors and walls both concrete and brickwork can be used.

#### Reasons for using UNI - Primer

- Priming surfaces for epoxy floor coverings and many others with short waiting time.
- A powerful adhesive/bonding agent.
- Low viscosity and good penetration
- Excellent bond strength and easy application
- Multi purposes
- Fast effective repairs/coatings to sea-walls, pools, tanks, sumps, drains, channels etc.
- Machine bedding and grouting.

#### Preparation

Concrete substrates must be free from loose material, dust, laitance, debris and other contaminants. Any oil or grease deposits can be removed by a hot detergent wash with a suitable cleaner available from Frinics Chemicals. Any laitance or ingrained oil and grease will require

mechanical removal by using grid blasting machine. Dust must be removed by vacuum machine before application of the product. Damage to substrate or incorrect falls should be rectified using Unibond screed before applying the **UNI - Primer system.**

#### Substrates:

Concrete Substrate must be strong, stable and sound with a minimum compressive strength 25N/mm<sup>2</sup>.

Also substrate can be Steel and Timber.

For application on previous flooring please contact Frinics Chemicals Technical services for specific advice.

#### Mixing

**UNI - Primer** is supplied in a **two part system**, and has a base and hardener components.

The Hardener should be added to the Base and stirred thoroughly for at least 2 minutes with a suitable slow speed drill and paddle. Allow to stand for 5 minutes before application onto prepared concrete.

#### Application

Apply the mixed material to the concrete surface using a brush or roller or airless spray. Brush out any primer which puddles in low areas on slabs (horizontals) or runs or sags on formed surfaces (verticals) during application. If primer is left for more than 24 hours before overcoating it will be necessary to re-prime.

#### Physical Data

**Finish:** Smooth, space gloss

**Colours: UNI - Primer Base:** Light Brown Liquid

**UNI - Primer Hardener:** Dark Brown Liquid

**UNI - Primer Finish product:** Brown Liquid

**Components: UNI - Primer Base  
UNI - Primer Hardener**

**Temperature resistance:** up to 60°C

**Recommended Thickness:** 150-200 microns/coat

**Curing mechanism:** Chemical reaction

**Curing Time at 20°C:** 12-24 hours

**Overcoating time:** 10°C 16-36 hours  
20°C 12-24 hours

(Primer will remain slightly tacky, this is normal and it can accept the epoxy paint or screed))

**Pot Life at 20°C:** 30 minutes (approx.)

**Practical Coverage:** 0.25kg/m<sup>2</sup>  
A 5.0kg unit of primer covers approximately 20m<sup>2</sup>.

**Equipment Cleaner:** Frinics G.P. Solvent

**Density:** UNI - Primer Base: ~1.30 kg/ltr  
UNI - Primer Hardener: ~1.01 kg/ltr  
UNI - Primer Mixed Resin: ~1.22 kg/ltr

All Density values at 23°C (EN ISO 2811-1)

**Solid Content:** ~100% (by volume)  
~100% (by weight)

#### **Mechanical Characteristics:**

**Compressive Strength:** 50 N/mm<sup>2</sup> (Mortar Screed)  
(28 days / +23°C) EN 196-1

**Flexural Strength:** 15 N/mm<sup>2</sup> (Mortar Screed)  
(28 days / +23°C) EN 196 – 1

**Bond Strength:** 2.0 N/mm<sup>2</sup> (EN 4624)

**Shore D Hardness:** 80 (7 days/+23°C) DIN 53 505

**Material is non Flammable**

#### **Pack sizes:**

UNI - Primer Base 3.75 kg in 5 ltr tin  
UNI - Primer Hardener 1.25 kg in 3 ltr tins

#### **Shelf life:**

All components: 1 year in unopened containers

Protect from extreme temperatures and keep dry during shipment and storage. Discard damaged or open containers

#### **Limitations**

All Frinics products are manufactured to a high standard of quality. They are sold subject to Frinics Conditions of Contract or Sale - copy available upon request. Whilst Frinics strives to ensure that any advice, information or recommendations given are appropriate and correct, it cannot, since it does not have complete control over the method and place of application of the products, accept any liability directly arising out of the use of products.

#### **Health and Safety at Work**

Warning and information concerning the safe handling and use of our products are displayed on their containers and in a Health and Safety data sheet. It is

the Purchaser's responsibility to ensure that the materials are stored and handled safely.

#### **Safety Precautions**

Read each component's Material Safety Data Sheet before use. Mixed material has hazards of each component. Safety Precautions included with Application Instructions must be strictly followed during storage, handling and use. Improper use and handling of this product can be hazardous to health and cause fire or explosion.

#### **Safety Equipment Required**

Suitable eye protection and clothing must be worn this preparation.

Normal precautions should be taken during application to provide adequate ventilation, particularly when working in enclosed spaces.

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