



# **BUILDING CHEMICALS SPECIALISTS**

# **UNIGUARD** 2 part Epoxy Paint for Floors

## **Product Data**

Uniguard Epoxy Paint for Floors is a two part Solvent Less Coloured Epoxy Resin Coat System and can be applied to many surfaces including concrete, steel and timber. Product is according to European Standard EN 13813:2002 Screed materials and floor screeds - Screed materials - Properties and Requirements.

It provides a smooth easily cleaned and durable surface, which is resistant to oil, dirt and many chemical environments.

## **Typical Uses**

It is used extensively for applications in warehouses, factories, and schools parking areas and other up to medium heavy wear industrial area. A slip resistant finish is also available by sprinkling aggregate into the surface.

## **Reasons for using Uniguard**

- Excellent abrasion resistance and durability.
- Oil and water resistant.
- Good Resistance to Dilute Chemical Solutions
- Easy to apply and has good Resistant to alkalies.
- Provides a smooth easily maintained floor.
- Suitable for Light to medium Warehouse Traffic and parking areas Traffic
- Dustproof, lightfast and colour stable.
- Slip resistant finish is also available.

## Preparation

Surfaces must be free from loose dust, 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 suitable screed available from Frinics Chemicals before applying the **Uniguard system**.

## Substrates:

Concrete Substrate must be strong, stable and sound with a minimum compressive strength 25N/mm2.

Also substrate can be Steel and Timber.

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

### Mixing

**Uniguard Paint** is supplied in a **two part system**, comprising of a **UNI - Primer** and **Uniguard Paint**, both have a base and hardener components.

**UNI - Primer** - Add the primer hardener to the contents of the primer base and mix thoroughly. Allow to stand for 5 minutes before application onto prepared concrete.

**Uniguard Paint** - The pigmented base must be thoroughly stirred and agitated to disperse sedimentation and achieve consistency of colour. The hardener should then be added to the base component and mixed thoroughly.

## Application

The UNI - Primer and Uniguard Paint can be applied using a suitable brush or roller or airless spray to achieve an even substantial coat of the surface area in a sufficient thickness. Curing or over coating time is dependent upon temperature.

If UNI - Primer is left for more than 24 hours before overcoating it will be necessary to re-prime. For general use 1 coat UNI - Primer and 2 coats of Uniguard Paint is recommended.

**Slip resistance** - Slip resistance can be added by simply sprinkling special sands into the 2<sup>rd</sup> coat whilst the final coat is still wet and then seal with the last 3<sup>th</sup> coat.

The method of application is first to apply the **UNI - Primer** and then to broadcast about 0.5-1.0 kg/m2 of **silica sand** into the 2nd **Uniguard Paint** Coat whilst it is still wet. Allow to dry, then remove all loose unrestrained sand and apply the 3rd coat of **Uniguard Paint** Coat to seal the system as described below.

**Note: Uniguard Paint** material consumed on the final coat will increase relative to the aggregate used.

The full system is therefore:

1st Coat: UNI - Primer

2nd Coat: Uniguard Paint

and slip resistant silica sand if required, sprinkled whilst coat is still wet.

## **3rd Coat** Uniguard Paint to seal slip resistant silica sand.

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## **Physical Data**

Finish:	Smooth, space gloss Slip resistant finish is also available	
Colours:	Finish product:	Coloured Liquid ner: Transparent Liquid Grey, Red, Green, Liquid. subject to min. order qty.)
Componer	nts:	UNI - Primer:2Uniguard Paint:2
Temperat	ure resistance:	up to 60°C
Recommended Thickness: UNI - Primer: Uniguard Paint:		150-200 microns 175-200 microns for each coat
1 coat UN	film thickness: [ - Primer + 2 coat 500-600 microns	s UNIGUARD Paint
Curing me	echanism:	Chemical reaction
Ľ	me at 20°C: ight Foot Traffic: ull Cure:	24 hours 7 days
	ner: 10°C 20°C	16-36 hours 12-24 hours ightly tacky, this is normal)
Uniguard	<b>Paint:</b> 10°C 20°C	18-28 hours 12-20 hours
	t 20°C: NI - Primer: niguard Paint :	30 minutes (approx.) 40 minutes (approx.).

### **Practical coverage:**

It depends upon the substrate condition and profile. UNI - Primer: 0.25kg/m<sup>2</sup> A 5.0kg unit of primer covers approximately 20m<sup>2</sup>.

**Uniguard Paint:** 0.25kg/m<sup>2</sup>/coat

A 5.0kg unit of topcoat covers approximately  $10m^2$  for 2 coats.

Equipment Cleaner: Frinics G.P. Solvent

Density:	Uniguard Paint Base:	~1.43 kg/ltr
	<b>Uniguard Paint Hardener:</b>	~1.03 kg/ltr
	Uniguard Paint Mixed Resin:	~1.34 kg/ltr
All Density values at 23°C (EN ISO 2811-1)		

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

Mechanical Characteristics: Compressive Strength: 60 N/mm<sup>2</sup>

(28 days/+23°C) EN 196-1

Flexural Strength: 30 N/mm<sup>2</sup> (28 days/+23°C) EN 196 – 1

 Bond Strength:
 2.0 N/mm² (EN 4624)

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

Abrasion Resistance: 70 mg (8 days /+ 23°C) DIN 53 109 Uniguard Paint is Resistant to Rolling Load and is non Flammable

### Pack sizes:

**UNI–Primer & Uniguard Paint base** 3.75 kg in 5 ltr tin **UNI Primer & Uniguard Paint Hard.** 1.25 kg in 3 ltr tins

### Shelf life:

**UNI - Primer** and **Uniguard Paint** component: 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. When applied by Spray, HSE type musk must be used.

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

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