

**Product 01421000** 2-comp. EP primer for substrates with high moisture content, solvent-free, Green Label certified

## 1 General Data

### Fields of application

VIASOL EP-P210<sup>VM</sup> is used as primer to improve the concrete surfaces for optimum adhesion of industrial flooring systems. It can also be used as a moisture barrier for concrete substrate with residual moisture content up to 6 CM%.

It can be used on green concrete (7 days old) provided the concrete is produced using stringent water : cement ratio of 0.48 and finished with a bull float finish

### Product description

VIASOL EP-P210<sup>VM</sup> is a pre-filled, solvent free, two-component epoxy primer with whitish appearance.

### Features & Benefits

**Environmentally preferred coating** – Green Label certified by Singapore Environmental Council (SEC)

**Excellent adhesion** to concrete, asphalt and most building materials and compatible to all other coating or topping systems

**High build** – ability to fill pores and bridge micro cracks

**Moisture tolerant** – suitable for substrate with moisture content up to 6 CM%

**Compatible to newly cured concrete** – can be applied to 7 day old concrete.

**Low / no odour** – does not taint food.

**Solvent Free** – non-flammable, no fire hazard

### VIASOL systems

VIASOL EP-P210<sup>VM</sup> is used as primer for substrates with high moisture content up to 6 CM% for all VIASOL EP- and PUR-Systems

#### (A) Technical data

##### Liquid mixture (A+B)

1. Solids content	99%
2. Density (25°C)	1.41 g/cm <sup>3</sup>
3. Viscosity (25°C)	1500–2500 mPas
4. Packaging size	25 kg (19 kg A + 6 kg B)
5. Appearance	whitish
6. Shelf life	12 months in closed original container
7. Storage	Dry at 10–30°C, avoid direct sunlight

#### (B) Technical data

##### Cured material

1. Adhesive strength (DIN ISO 4624)	> 1.5 N/mm <sup>2</sup> (concrete failure)
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### Technical support

For system build up possibilities and detailed information relating to the laying of VIASOL products, please refer to the VIASOL System Planner or contact VIACOR Asia Sdn Bhd directly.

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032-152-3429  
Environmentally Preferred  
Coating

#### Manufacturer:

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## 2 Application method

### Substrate preparation

The substrate must be firm, clean, dry and have a pull-off strength of 1.5 N/mm<sup>2</sup> minimum.

Wet areas shall be dried with a blow torch. The moisture content in the substrate must not exceed 6 CM %. There should be no water in the pores.

New concrete must be allowed to cure for a minimum of 28 days. However, for bull float finish concrete with 0.48 : water : cement ratio, 7 days cure is adequate.

Repair imperfections (holes and cracks) with an epoxy patching compound such as VIASOL EP-T703<sup>VM</sup> where necessary.

Remove surface laitance, contaminants, coating, curing compound and all weak and loose materials.

Prepare substrate by Captive Shot Blasting or Diamond Grinding to provide the appropriate surface profile for optimum mechanical interlocking.

No grinding or shot-blasting is necessary for bull float finish concrete with 0.48 water : cement ratio.

### Application

Before starting the application, the material temperature must be close to the site conditions.

Empty contents of component B (Hardener) into component A (Base Resin). Mix with a suitable mixer at a speed of 500 rpm to avoid incorporating excessive air into the mix. Mix for 2 minutes.

Transfer the mixture into another clean container and mix for 1 minute. Allow a pre-reaction time of 5 minutes.

To cover vertical surfaces, add 1 to 3 % of VIASOL X955 (thixotropic agent) and mix for 1 minute or until homogeneous.

Spread the mixed product onto the surface with a squeegee and back roll with a roller at the consumption rate of 0.2 – 0.4 kg/m<sup>2</sup> depending on the porosity of the concrete surface.

For substrate with residual moisture content up to 4 CM% applied only once.

### (C) Technical data

#### Liquid mixture (A+B)

1.	Mixing ratio A : B	100 : 32 by weight (kg)
2.	Working time (20°C)	approx. 20 minutes (+ 5 minutes pre-reaction time)
3.	Application temperature	10 – 30°C (min. 3°C above dew point)
4.	Material consumption	approx. 300–500 g/m <sup>2</sup> per layer
5.	Overcoating (25°C)	within 24 hours
6.	Cure time to withstand:	
	Foot traffic (25°C)	after 12 - 15 hours
	Heavy traffic (25°C)	after 3 days
	Exposure to chemicals (25°C)	after 7 days

For substrate with residual moisture content above 4 and up to 6 CM%, apply twice. The first layer must be applied with spatula at minimum consumption rate of 0.5 kg/m<sup>2</sup>, followed by a second layer at minimum consumption rate of 0.3 kg/m<sup>2</sup>. The first layer must not be sprinkled over with quartz sand. The second layer can be rolled with a short pile roller 4 hours after the application of the first layer. Ensure that a film-forming, closed surface is produced.

To improve inter-layer adhesion, sprinkle VIASOL QS 0.3-0.8 quartz sand lightly (approx. 800 g/m<sup>2</sup> while the primer is still wet. If a two coat application, sprinkle VIASOL QS 0.3-0.8 quartz sand only on the second coat.

For cleaning of tools and other contaminations VIASOL SO-X10 tool cleaner is used.

### Overcoating

Overcoating has to take place after 4 hours but within 24 hours after application of VIASOL EP-P210<sup>VM</sup>. If longer, the surface has to be lightly grinded before over-coating.

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### 3 Further information

#### CE-Mark



#### CE-Mark according to EN 13813

EN 13813: 2003-01, Screed material and floor screeds - Screed materials - Properties and requirements is the basis for requirements for floor screeds used in indoor flooring constructions. Resin coatings and sealer are also subject to this norm.

Details see CE-conformity mark and conformity declaration.

#### Warnings and precautions

Information relating to the safe handling of this product can be found in the Material Safety Data Sheet. Local regulations concerning the safe handling of epoxy resin based coating materials must be observed.

Suitable protective clothing including suitable eye protection must be worn.

#### Disclaimer

All information in this technical data sheet is based on our current knowledge and experience. This does not release the applicator from performing their own tests as many application factors, beyond our control, affect the application of our product. No guarantee of characteristics or suitability for a special purpose can be derived from this information. All present data, descriptions, drawings, photos, ratios, weights etc. are subject to change without prior notice and do not represent contracted characteristics of the product.

Due to different materials, sub-bases and working conditions, no guarantee of an application result or any liability claims can be derived from these details or from an unwritten technical advice except for liability claims based on:

- damage to life, body or health resulting from a negligent violation of obligations or a deliberate or negligent violation of obligation of a legal representative or assistant and
- if we are charged with intention or gross negligence.

The user has to test the products for their intended use. The user is responsible for following existing laws and orders and for observing third party trade mark rights.

As all VIACOR data sheets are updated on a regular basis it is the users responsibility to obtain the most recent issue (see [www.viacor.asia](http://www.viacor.asia)).

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