

**Product 01470300** 2-comp. EP primer and binder for mortars / 3-comp. high strength EP mortar, solvent-free, transparent

## 1 General Data

### Fields of application

VIASOL EP-T703<sup>FF</sup> can also be used as a primer for concrete or other hydraulic substrates. More than 1 coat recommended for pores substrate.

VIASOL EP-T703<sup>FF</sup> can also be used as binder for mortar screeds in combination with VIASOL quartz mixtures. These screeds are applied for industrial floors subject to the highest mechanical stress e.g., for military buildings, breweries, or production sites with heavy-duty traffic.

### Product description

VIASOL EP-T703<sup>FF</sup> is a solvent-free, colourless two-component epoxy resin binder or primer. VIASOL EP-T703<sup>FF</sup> exhibits excellent mechanical properties and is also used for repair work. VIASOL EP-T703<sup>FF</sup> epoxy binder designed for use with VIASOL QS 20<sup>FF</sup> quartz sand to produce a seamless, heavy duty industrial floor.

In general, epoxy resins are not colour stable if exposed to UV light or under influence of weathering. We recommend to apply a colour stable sealer.

### Features & Benefits

- Good Chemical resistant
- Good Abrasion / impact resistant
- High compressive strength
- Excellent adhesion to concrete
- Solvent free

### VIASOL systems

VIASOL EP-T703<sup>FF</sup> is used as the binder for the VIASOL system:  
VIASOL **COMPACT<sup>FF</sup>**

### Care and maintenance

For a long-term preservation of the properties of resin floors, we recommend a regular cleaning and care programme. For further details, see our VIASOL Care and Maintenance Guide. Before first use we recommend to perform a basic cleaning and initial care.

#### Manufacturer:

Floorfinder Asia Sdn. Bhd., No. 28, Lorong Sungai Puloh 1A/KU6, Jalan Sungai Puloh, Batu 5 3/4, 42100 Klang, Selangor Darul Ehsan, Malaysia, tel: +603 3290 7644, email: [info@floorfinder.com.my](mailto:info@floorfinder.com.my) , [www.floorfinder.com.my](http://www.floorfinder.com.my) – A division of VIACOR Polymer GmbH Germany

#### (A) Technical data

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

1. Solids content	99 %
2. Density (25°C)	1.09 g/cm <sup>3</sup> (A+B)
3. Viscosity (28°C)	600–1000 mPas (A+B)
4. Packaging size	30 kg (20 kg A + 10 kg B) 270 kg (20 kg A + 10 kg B + 240 kg C)
5. Appearance	Transparent (A+B)
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)
2. Compressive strength (DIN EN 196)	> 65 N/mm <sup>2</sup>

### 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 Floorfinder Asia Sdn Bhd directly.

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## 2 Application method

### Substrate preparation

*Use as a primer:*

The substrate must be prepared by vacuum shot blasting. Rough contaminations can be removed by grinding. VIASOL EP-T703<sup>FF</sup> can be applied to the surface directly if the substrate moisture content does not exceed 4.0 CM %, if the surface is absorbent and free of puddles. There should be no water in the pores. The substrate must be clean and free of dust and loose particles. All traces of contaminants such as oils, fats, greases, paint residues, chemicals, algae and laitance should be removed. The surface should have an adhesive pull strength of minimum 1.5 N/mm<sup>2</sup>. Cracks and hollows must be properly remedied.

*Use as a binding agent for mortar:*

The substrate must be clean and free of dust and loose particles. Mortars with VIASOL EP-T703<sup>FF</sup> as a binding agent are applied directly onto the primer. If the floor shows unevennesses or holes, these should be remedied with VIASOL EP-T703<sup>FF</sup> (filled with VIASOL QS 20). The mortar must be applied within 24 hours after the primer has been laid.

### Application

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

Empty contents of component B (Hardener) into component A (Base Resin). Mix with a suitable mixer at a speed of 350 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.

**As primer:**

The mixture is poured onto the surface in portions and spread with a squeegee and back rolled with a roller. The primer must be applied so as to be free of pores and form a film. Depending on the substrate a second coat application may be necessary.

To improve inter-layer adhesion, sprinkle VIASOL QS 0.3-0.8 mm quartz sand lightly (approx. 800 g/m<sup>2</sup>) while the primer is still wet. If two coats of primer are necessary, this should be done on the second coat. If used as primer for mortar screeds, the primer should be sprinkled with silica sand (approx. 1000 g/m<sup>2</sup>).

### (C) Technical data

**Liquid mixture (A+B)**

1. Mixing ratio A : B	2 : 1 by weight (kg)
Mixing ratio A : B: filler	2 : 1 : 24 (kg)
Mixing ratio binder: filler	1 : 8 (kg)
2. Working time (25°C)	approx. 20-25 mins
3. Application temperature:	10 – 30°C (min. 3°C above dew point)
4. Material consumption	
Primer:	300 – 500g/m <sup>2</sup>
Mortar per mm layer thickness:	approx. 2.2 kg/m <sup>2</sup>
5. Overcoating (25°C)	within 24hours
6. Cure time to withstand:	
Foot traffic (25 °C)	after 18 - 24 hours
Heavy Traffic (25°C)	after 3 days
Exposure to chemicals (25°C)	after 7days

**As mortar:**

The filler VIASOL QS20<sup>FF</sup> is premixed dry in a forced action pan mixer. Then the mixed binder (see above) is added and mixed with the filler for minimum 3 minutes.

The mixing ratio of binder: filler is 1:8. The mortar is applied onto the primed surface at a minimum layer thickness of 5-8 mm using a pin rake or hand trowel and finished off by hand or 'helicopter'. After the mortar has cured, it must be scratch-coated 2-3 times with VIASOL EP-T703<sup>FF</sup> or VIASOL EP-P285<sup>FF</sup> using a squeegee and back roll with a roller.

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

### Overcoating

Over-coating should be carried out within 24 hours after application of the mortar. If longer than 24 hours, it is necessary to lightly grind the mortar surface before over-coating is carried out.

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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 Floorfinder data sheets are updated on a regular basis it is the users responsibility to obtain the most recent issue (see [www.floorfinder.com.my](http://www.floorfinder.com.my)).

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