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-T703VM is used to produce a heavy duty industrial flooring system for protection of concrete floor surface against harsh and aggressive service conditions such as mechanical abuses and chemical attacks.
It is widely used in food & beverage, dairy production, abattoirs, warehouse/distribution centres, assembly plants and factories.
VIASOL EP-T703VM can also be used as a primer for concrete or other hydraulic substrates.

Product description

VIASOL EP-T703VM is a solvent-free, colourless, low viscosity two-component epoxy binder designed for use with VIASOL QS 20VM quartz sand to produce a seamless, heavy duty industrial floor which is easy to clean and exhibits excellent mechanical properties.
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

Chemical resistant–resists dilute acids and alkalis, aliphatic solvents and commercial cleaning agents

Abrasion / impact resistant – hard wearing and durable

High strength – 65 MPa compressive strength

Excellent adhesion to concrete and most other coating or topping systems

Low / no odour – does not taint food

Solvent free– non-flammable, no fire hazard

VIASOL systems

VIASOL EP-T703VM is used as the binder for the VIASOL system:

VIASOL***COMPACT***

Care and maintenance

The lifespan and performance of your resin floor can be extended considerably by adopting a regular cleaning and care programme. We recommend the use of an alkaline based cleaning agent.

(A) Technical data		
Liquid mixture (A+B)		
1.	Solids content	99 %
2.	Density (25°C)	1.09 g/cm^3 (A+B)
3.	Viscosity (28°C)	600–1000 mPas (A+B)
4.	Packaging size	30 kg (20 kg A + 10 kg B) 67.5 kg (5 kg A + 2.5 kg B + 60 kg C) 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^2 (concrete failure)
2.	Compressive strength (DIN EN 196)	65 MPa

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.
Tel: +603 5131 7777
e-mail: info@viacor.asia

Manufacturer:
VIACOR Asia Sdn Bhd, No. 5 Jalan Sungai Terap 32/182, Bukit Rimau Industrial Park, 40460 Shah Alam, Selangor Darul Ehsan, Malaysia, tel: +603 5131 7777, fax: +603 5131 7878, mail: info@viacor.asia, www.viacor.asia – A division of VIACOR Polymer GmbH Germany

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

2 Application method

Substrate preparation

The substrate must be firm, clean, dry and have a tensile strength of 1.5 N/mm² minimum.

Wet areas shall be dried with a blow torch. The moisture content in the substrate must not exceed 4 CM %.

New concrete must be allowed to cure for a minimum of 28 days.

Repair imperfections (holes and cracks) with an epoxy patching compound such as VIASOL EP-T703VM 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 keying.

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 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.

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 0.2-0.5 mm quartz sand lightly (approx. 600 g/m²) while the primer is still wet. If two coats of primer is necessary, this should be done on the second coat.

.

(C) Technical data

Liquid mixture (A+B)

1.	Mixing ratio A : B Mixing ratio A : B: filler Mixing ratio binder: filler	2 : 1 by weight (kg) 2 : 1 : 24 (kg) 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: Mortar per mm layer thickness:	 300 – 500g/m^2 approx. 2.2 kg/m^2
5.	Overcoating (25°C)	within 24hours
6.	Cure time to withstand: Foot traffic (25 °C) Heavy Traffic (25°C) Exposure to chemicals (25°C)	 after 18 - 24 hours after 3 days after 7days

As mortar:
The filler VIASOL QS20VM 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 6-8 mm using a pin rake or hand trowel and finished off by hand or 'helicopter'.

After the mortar has cured, apply 2 to 3 coats of VIASOL EP-P285 / EP-T703VM 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 overcoating is carried out.

Manufacturer:
VIACOR Asia Sdn Bhd, No. 5 Jalan Sungai Terap 32/182, Bukit Rimau Industrial Park, 40460 Shah Alam, Selangor Darul Ehsan, Malaysia, tel: +603 5131 7777, fax: +603 5131 7878, mail: info@viacor.asia, www.viacor.asia – A division of VIACOR Polymer GmbH Germany

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

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 characeristics 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 characteritics of the product.
Due to different materials, sub-bases and working conditions, no guaratee 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 vialation 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).

Manufacturer:
VIACOR Asia Sdn Bhd, No. 5 Jalan Sungai Terap 32/182, Bukit Rimau Industrial Park, 40460 Shah Alam, Selangor Darul Ehsan, Malaysia, tel: +603 5131 7777, fax: +603 5131 7878, mail: info@viacor.asia, www.viacor.asia – A division of VIACOR Polymer GmbH Germany