

Product 01468400 2-comp. EP advanced resin based coating, solvent free, clear, gloss

1 General Data

Fields of application

VIASOL EP-S684^{VM} is designed for use as a protective coating on concrete, block work, brick, steel, timber and laminate surfaces. It is recommended for use for dust proofing of concrete and in situations subject to water condensation and as a seal coat for added stain resistance for pigmented coating.

Product description

VIASOL EP-S684^{VM} is a clear, two-component, water vapour permeable, advanced resin based coating with low/no odour and low emission of VOC (volatile organic compounds). VIASOL EP-S684^{VM} is a concentrate and must to be diluted with water before application. It provides a hard wearing surface that is easily cleaned. It is available in a gloss finish. Compared to traditional epoxy systems this product shows good UV stability and weather resistance.

Features & Benefits

Chemical resistant – to petroleum oils, solvents and commercial cleaning agents

Low VOC emission

Good adhesion to concrete and most building material and other coating or topping systems

Water impermeable – waterproof

Stain resistant – unpigmented, no discoloration

Low / no odour – does not taint food

Solvent free – non-flammable, non-toxic and environmentally friendly

Easy application – by roller or airless spray for fast installation

VIASOL systems

VIASOL EP-S684^{VM} is the sealer for the VIASOL systems:

VIASOL**PERM**

(A) Technical data

Liquid mixture (A+B)

1. Solids content	57% (concentrate) 36% (diluted)
2. Density (25°C)	1.05 g/cm ³
3. Viscosity (25°C)	200-400 mPas (diluted)
4. Packaging size	7 kg (5 kg A + 2 kg B) addition of 4L water per unit required
5. Colour	milky
6. Shelf life	12 months in closed original container
7. storage	Dry and frost-free at 10–30°C, avoid direct sunlight

(B) Technical data

Cured material

1. Adhesive strength (DIN EN ISO 4624)	> 1.5 N/mm ² (concrete failure)
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Care and maintenance

The lifespan & 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.

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

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2 Application method

Substrate preparation

As Sealer

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

Concrete substrate should have no ponded water. The moisture content in the substrate is not relevant.

The product can be used on fresh concrete as a curing compound (water will stay in concrete long enough for curing of concrete to gain the desired strength).

Repair imperfections (holes and cracks) with an epoxy patching compound such as VIASOL EP-T703^{VM} where necessary.

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

Prepare substrate by Mechanical Grinding to provide the appropriate surface profile for optimum mechanical keying.

For the newly laid coating or topping, no surface preparation is required if less than 24 hours old. A light sanding is required if the coating or topping surface is over 24 hours old.

Application

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

Empty contents of component B into component A. Mix with a suitable mixer at a speed of 500 rpm to avoid incorporating excessive air into the mix. Mix for 2 minutes until mixture turn milky.

Then add the required amount of water (4 liter per unit of 7 kg A+B) and mix for 1 minute.

Transfer the mixture into another clean container and mix for 1 minute.

Pour the wet mix onto the prepared surface in small lines. Spread the material on the surface with the first roller and follow with a second roller, rolling in one direction at the appr. consumption rate of 0.08 – 0.1 kg/m². Ensure to maintain continuous of wet on wet material within 4 minutes to avoid dry edges between pours.

Do not apply too thick and do not allow any puddling. Provide good ventilation to ensure that the relative air humidity does not exceed 80% during application and curing as it will inhibit evaporation of water and affect cure.

For cleaning of tools and other contaminations use water.

(C) Technical data

Liquid mixture (A+B)

1. Mixing ratio A : B : water	5 : 2 : 4 by weight (kg)
2. Working time	approx. 25 min. (25°C) approx. 20 min. (30°C)
3. Application temperature:	10 – 30°C (min. 3°C above dew point)
4. Material consumption	0.08 – 0.10 kg/m ²
5. Following coating (25°C)	within 24hours
6. Cure time to withstand: Foot traffic (25 °C) Vehicular traffic (25°C)	after 24 hours after 3 days

Overcoating

The second coat can be applied within 24 hrs without grinding. If longer, the surface has to be grinded before over-coating.

Allow to cure a minimum of 24 hours before exposing to foot traffic.

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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).

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