

Product 02450000 2-comp. PU top coating, color stable, low emission, elastic, colored

## 1 General Data

### Fields of application

VIASOL PU-C500<sup>VM</sup> is used as color stable, elastic, sound reducing and foot-comfort coating. It provides a crack-bridging floor finish with good chemical resistance, mechanical properties.

Typical uses for this high quality product are shopping complex, offices, schools, showrooms, pharmaceutical, cleanrooms, kindergarten, universities, hospitals etc.

### Product description

VIASOL PU-C500<sup>VM</sup> is a pigmented, ready-to use, solvent free and elastic two-component PU self levelling coating. VIASOL PU-C500 has outstanding mechanical properties and is permanently elastic. It fulfils the requirement of German AgBB, the standard for low emission in construction products. VIASOL PU-C500 is easy to apply and shows a good curing behavior.

### Features & Benefits

Seamless finish

Easy integration of floor into various colour schemes

Low Emission (AgBB compliance)

High Elasticity

UV Resistance

Chemical resistant

### VIASOL systems

VIASOL PU-C500<sup>VM</sup> is a flexible polyurethane topping for the VIASOL System:

**VIASOLELASTIC UV**

### 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)	1.43 g/cm <sup>3</sup>
3. Viscosity (28°C)	3000-4500 mPas
4. Packaging size (2-component container)	25 kg (20 kg A + 5 kg B)
5. Colors	VIASOL standard
6. Shelf life	9 months in closed original container
7. storage	Dry at 15–25°C, avoid direct exposure to sunlight

#### (B) Technical data

##### Cured material

1. Adhesive strength (DIN ISO 4624)	> 1.5 N/mm <sup>2</sup> (concrete failure)
2. Elongation at break (DIN 53504)	approx. 60%
3. Hardness Shore-A (DIN EN ISO 686)	approx. 80 (after 7 days)
4. Abrasion Resistance (DIN EN ISO 5470-1)	30mg (Taber 1000g / 1000 U with sealer)

### 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](mailto: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](mailto:info@viacor.asia), [www.viacor.asia](http://www.viacor.asia) – A division of VIACOR Polymer GmbH Germany

Product 02450000      2-comp. PU top coating, color stable, low emission, elastic, colored

## 2 Application method

### Substrate preparation

The substrates must be clean and free of dust and loose particles. All traces of contaminations such as oils, grease, paint residues, chemicals, algae and laitance should be removed. In order to achieve a uniform aesthetic effect of the flooring VIASOL PU-C500<sup>VM</sup> is applied directly on the primer VIASOL EP-P210<sup>VM</sup> or on the PU leveling layer.

The coating VIASOL PU-C500<sup>VM</sup> has to be applied within 24 hours after completion of previous layer application.

### Application

VIASOL PU-C500<sup>VM</sup> is supplied in pre-weight 2-component containers (A, B) in the designed mixing ratio. Component A must be pre-mixed for at least 1 -2 minutes. Add Component B into the container and mix for another 2 – 3 minutes using a suitable electric stirrer until the material is homogenous. Avoid air entrapment during the mixing.

The mixture is poured into clean mixing container and briefly stirred for another 30 seconds. VIASOL PU-C500<sup>VM</sup> is poured on the prepared surface and spread over the entire area using a notched trowel (tooth size No. 25 / also check application thickness). The liquid coating shall be rolled with a metal spiked roller to ensure optimal de-foaming. The applicator shall wear spiked shoes for his operation to walk in the freshly applied coating.

For cleaning of tools and other contaminations VIASOL SO-X12 cleaner is recommended.

### Overcoating

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

### (C) Technical data

#### Liquid mixture (A+B)

1.	Mixing ratio A : B	100 : 25 by weight (kg)
2.	Pot life	12°C – 40 min. 20°C – 25 min. 30°C – 15 min.
3.	Application temperature:	10 – 30°C (min. 3°C above dew point)
4.	Material consumption	2.0 – 5.0 kg/m <sup>2</sup> . Varying depends on thickness
5.	Re-coating interval (25°C)	within 24hours
6.	Cure time to withstand:	
	Foot traffic (25 °C)	after 24 hours
	Mechanical service (25°C)	after 3 days
	Exposure to chemicals (25°C)	after 7days

#### 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](http://www.viacor.asia) – A division of VIACOR Polymer GmbH Germany

Product 02450000      2-comp. PU top coating, color stable, low emission, elastic, colored

### 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)).

#### 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](mailto:info@viacor.asia), [www.viacor.asia](http://www.viacor.asia) – A division of VIACOR Polymer GmbH Germany