

Product 02450010      2-comp. PU coating, color stable, low emission, elastic, decorative

## 1 General Data

### Fields of application

VIASOL PU-C500 SKY<sup>VM</sup> is used as decorative colour stable, elastic, impact sound insulation and foot-comfort flooring provides a crack-bridging with good chemical resistance, mechanical properties floor finish.

This highly versatile and combinations in a modular fashion to meet the precise needs of customers like shopping complex, offices, schools, showrooms, pharmaceutical, cleanrooms, kindergarten, universities, hospitals etc.

### Product description

VIASOL PU-C500 SKY<sup>VM</sup> is a pigmented, two-component incorporated with 3D-fillers, low emission, and elastic self-smoothing polyurethane topping. VIASOL PU-C500 SKY<sup>VM</sup> has excellent mechanical properties and high elasticity. It fulfills the requirements of German AgBB, the standard for low emission for construction chemicals in particular. Due to its extended pot life, VIASOL PU-C500 SKY<sup>VM</sup> is easy to apply and shows a good curing behavior.

### Properties

- Decorative with effect fillers
- Impact sound reducing
- High UV- and color stable
- Elastic
- Low odor, low emission

### VIASOL systems

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

**VIASOLELASTIC SKY**

### 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. Colours	VIASOLELASTIC SKY 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 868)	approx. 80
4. Abrasion Resistance (DIN EN ISO 5470-1)	30 mg (Taber 1000 g / 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:

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## 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 SKY<sup>VM</sup> must be applied on a perfectly flat PU leveling layer matched to slightly translucent coating colour. In case of uneven substrates color differences may appear on high or low points of the surface caused by effect fillers.

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

### Application

VIASOL PU-C500 SKY<sup>VM</sup> is supplied in pre-weight 2-component containers in the designed mixing ratio. The 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 electrical helical spinner. Mix until the material is homogenous. Avoid air entrapment during the mixing. We recommend the application by equal batch numbers.

To ensure a uniform distribution of the effect fillers, the product shall be mixed again briefly after 3 – 5 minutes standing, if it wasn't distributed completely on the surface. We recommend to apply only one batch on each area.

The mixture is poured is poured into another container and briefly stirred again. The material is poured onto the surface and spread over the entire area using a notched trowel or squeegee (check application thickness). Spike roll the liquid coating with a metal spiked roller (e.g. Multitool) to ensure an optimal de-foaming. The applicator shall wear spiked shoes which enables him to walk on the freshly applied coating.

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

### 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 (depending on substrate)	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

### Colours

Due to the special colouration-technology and incorporation with effect fillers which may vary from the standard colour swatch from RAL or NCS. Colour selection is based on the VIASOLELASTIC SKY colour chart. Please request a true sample if necessary.

The product is slightly translucent, so the colour of substrates or base layer may reflect on the appearance of finished surface. Therefore, the colour between the finish surface and base layer should be synchronized as close as possible.

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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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