

VIASOL PU-C500 SKY Technical Data Sheet

Product 02050010 2-comp.-PU coating, colour-stable, elastic, low emission, decorative

1 General Data

Fields of application

VIASOL PU-C500 SKY is used as decorative, colour-stable, elastic, impact sound reducing and foot-warm coating for substrates needing a crack-bridging coating with good mechanical and chemical resistance like cementitious screeds, asphalt screeds or anhydride screeds and others. Typical uses for this high-quality product are shopping malls, hospitals, retirement homes, offices, schools and kindergartens, show rooms and other slightly loaded industrial floorings.

Product description

VIASOL PU-C500 SKY is a pigmented, ready-to use, plasticizer and solvent free, low emission, elastic two-component PU self-levelling coating with special effect fillers. VIASOL PU-C500 SKY has outstanding mechanical properties and is permanently elastic. It fulfils the requirements of German AgBB, the standard for low emission in construction products.

Due to its long pot life VIASOL PU-C500 SKY is easy to apply and shows a good curing behaviour. The coating is easy to clean (see care and maintenance guide)

Properties

- decorative with effect fillers
- impact sound reducing and foot-warm
- high UV- and colorstable
- statically crack bridging
- elastic
- low odour
- low emission (AgBB)

VIASOL systems

VIASOL PU-C500 SKY is the flexible coating for the VIASOL **GREEN LINE ECO** systems:

VIASOLELASTIC SKY
 VIASOLELASTIC SKY *comfort*
 VIASOLELASTIC SKY *soft*

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.

(A) Technical Data	
Mixture (A+B)	
1. Solids content	99 %
2. Density (20°C)	1.45 g/cm ³
3. Viscosity (20°C)	3000 – 5000 mPas
4. Packaging size (2-component container)	25 kg (20 kg A + 5 kg B)
5. Colour	VIASOLELASTIC SKY color standard, others on request
6. Shelf life	12 months in originally closed container
7. Storage	Dry at 15-25°C, avoid direct sunlight

(B) Technical Data	
Cured material	
1. Hardness Shore-A (DIN EN ISO 868)	approx. 80
2. Elongation at break (DIN 53504)	approx. 60%
3. Wear resistance (Taber) DIN EN ISO 5470-1	30 mg (1000 g/ 1000U 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 Polymer GmbH directly.

Phone: +49 (0)7472-949990
 E-Mail: info@viacor.de

Manufacturer:

VIACOR Polymer GmbH, Graf-Bentzel-Str.78, D-72108 Rottenburg, Tel: +49/7472-94999-0, info@viacor.de, www.viacor.de

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2 Application method

Please refer also to our general application guideline.

Substrate Preparation

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.

In order to achieve a uniform decorative effect of the coating VIASOL PU-C500 SKY, the coating must be applied on a perfectly flat PU levelling layer (e.g. VIASOL PU-C525, mandatory for the VIASOLELASTIC SKY *comfort* and VIASOLELASTIC SKY *soft* system) matched to the slightly translucent coating colour. For this see VIASOLELASTIC SKY colour chart. In case of non-even substrates colour differences may appear on high or low points of the surface caused by the effect filler.

The coating VIASOL PU-C500 SKY has to be installed within 24 h after the previously applied base layer

Application

VIASOL PU-C500 SKY is supplied in 2-component containers in the right mixing ratio. The A-component must be stirred for at least 1 – 2 minutes. Then the entire content of the B-component is emptied into the A-component container and the two components are mixed until homogeneous using a suitable electric stirrer (for at least 2 – 3 minutes). The inclusion of air in the mixing process is to be avoided. We recommend the application by equal batch numbers.

To ensure a uniform distribution of the effect fillers, the product should be mixed again briefly in the container after 3 - 5 minutes standing (e.g. with a screwdriver with whorl), if it was not distributed at this time already completely on the surface. We recommend to apply only one batch on each area.

The mixture is poured into another container and briefly stirred again. VIASOL PU-C500 SKY is poured onto the surface and spread over the entire area using a notched trowel or squeegee (check application thickness). We recommend to roll the still liquid coating with a metal spiked roller (e.g. Multitool) to ensure optimal de-foaming. The applicator wears spiked shoes for this operation which enable him to walk in the freshly applied coating.

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

Overcoating

It is not necessary to abrade the surface if the following coat is applied within 24 h. After 24 h, the application can only take place after a careful grinding of the surface.

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(C) Technical Data		
Mixture (A+B)		
1. Mixing ratio A : B		100 : 25 (by weight)
2. Working time	12°C 20°C 30°C	approx. 40 min. approx. 25 min approx. 15 min.
3. Application temperature		10–30°C (min. 3 K above dew point)
4. Relative humidity		max 85%
5. Material consumption (depending on substrate)		2000 – 5000 g/m ²
6. Foot traffic (20°C)		after approx. 24 hours
7. Following layer (20°C)		within 18–24 hours
8. Fully capable of withstanding stress		
	mechanical (20°C)	after 3 days
	chemical (20°C)	after 5 days

Colours

Due to the special colouration-technology and the included effect fillers exact adjustments to colour standards such as RAL or NCS are limited. A colour selection shows the VIASOLELASTIC SKY colour chart. If in doubt, please ask for a sample.

The product is slightly translucent, so the colour of the substrate has a significant impact on the appearance of the finished coating. Therefore always a colour coordinated base coating in the matched colour for the corresponding VIASOL PU-C500 SKY colour should be chosen.

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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.

Decopaint-Guidelines (EU 2004/42/EG)

The maximum allowable VOC content for Product Category IIA j Type Lb products (in the ready to use state) is:

Stage II (from 2010) < 500 g/l VOC

In the ready to use state, this product contains less than 500 g/l VOC.

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.de or contact us directly).

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