

Product 02050000 2-comp.-PU top coating, colour-stable, elastic, low emission, coloured

1 General Data

Fields of application

VIASOL PU-C500 is used as colour-stable, elastic, sound reducing and foot-warm coating for substrates needing a crack-bridging coating with good mechanical and chemical resistance like mastic asphalt or bituminous screeds. Typical uses for this high-quality product are shopping malls, workshops, clinics, offices, schools, show rooms and industrial floorings.

Product description

VIASOL PU-C500 is a pigmented, ready-to use, plasticizer and solvent free, low emission, elastic two-component PU self-levelling coating. VIASOL PU-C500 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 is easy to apply and shows a good curing behaviour. The coating is easy to clean (see care and maintenance guide).

VIASOL systems

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

VIASOLELASTIC UV
VIASOLELASTIC soft UV

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.

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.

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(A) Technical Data

Mixture (A+B)

1. Solids content	99 %
2. Density (20°C)	1.57 g/cm ³
3. Viscosity (20°C)	4000 – 5000 mPas
4. Packaging size (2-component container)	25 kg (20 kg A + 5 kg B)
5. Colour	VIASOL standard
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 ISO 9352)	30 mg (1000 g/1000U with sealer)



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.

Depending on the desired evenness of the final coating, VIASOL PU-C500 is applied directly to the primer VIASOL EP-P210 or to a PU-based levelling layer (e.g., PU-C501). The coating VIASOL PU-C500 must be applied no later than 24 hours after the application of the previous coat.

Application

VIASOL PU-C500 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.

The mixture is poured into another container and briefly stirred again. VIASOL PU-C500 is poured onto the surface and spread over the entire area using a notched trowel with tooth size no. 25 (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.

Color chips can be scattered for color design purposes, which should be integrated with a transparent, UV-resistant sealant, e.g. VIASOL PU-S6000.

Adding micro solid glass beads to the sealant also significantly improves the slip resistance.

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.

(C) Technical Data

Mixture (A+B)

1.	Mixing ratio A : B	100 : 25 (by weight)
2.	Working time	12°C approx. 40 min. 20°C approx. 25 min 30°C approx. 15 min.
3.	Application temperature	10–30°C (min. 3 K above dew point)
4.	Relative humidity	max 85% at 23°C
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) chemical (20°C)	after 3 days after 5 days

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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 user's responsibility to obtain the most recent issue (see www.viacor.de or contact us directly).