

Product 01050040 2-C-EP coating, decorative, self-levelling, solvent-free, coloured

1 General Data

Fields of application

VIASOL EP-C500 SKY is used as a decorative self-levelling coating for industrial floors with high demands in mechanical and hygienic terms.

Areas of application are found in all branches e.g. clean rooms in the pharmaceutical industry, high-shelf warehouses, stores, supermarkets, laboratories, production sites etc.

Product description

VIASOL EP-C500 SKY is a pigmented, ready-to-use, solvent-free 2-component coating compound of high-grade epoxy resin with decorative special effect fillers..

VIASOL EP-C500 SKY produces tough, joint-free, non-porous floor coatings which are easy to clean and exhibit a good level of resistance to fuels and lubricants, most solvents and many chemicals. Exposure to chemicals may lead to optical discoloration that will not affect the technical usability of the flooring (see chemical resistance list).

In general, epoxy resins are not colour stable if exposed to UV light or under influence of weathering. For a matt finish we recommend to apply a transparent seal coat.

Properties

- decorative with effect fillers
- self-levelling
- high mechanical resistance
- joint-free
- easy to clean, hygienic

VIASOL systems

VIASOL EP-C500 SKY is used as coating for the following VIASOL systems:

VIASOL **UNIVERSAL SKY**

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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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

(A) Technical Data	
Liquid mixture (A+B)	
1. Solids content	98 %
2. Density (20°C)	1.6 g/cm ³
3. Viscosity (20°C)	2000–3000 mPas
4. Packaging size (2-component container)	25 kg (21.3 kg A + 3.7 kg B)
5. Colours	VIASOL SKY colour chart, others on request
6. Shelf life	24 months in closed original container
7. storage	dry at 10–25°C, avoid direct sunlight

(B) Technical Data	
Cured material	
1. Flexural strength (DIN EN 196 / ASTM C 109)	40 N/mm ²
2. Compressive strength (DIN EN 196 / ASTM C 109)	70 N/mm ²
3. Adhesive strength (DIN EN ISO 4624)	> 2.5 N/mm ² (concrete failure)
4. Abrasion resistance (DIN EN ISO 5470-1)	80 mg/1000 cycles (Taber CS10 wheel)
5. Shore-D-hardness (DIN EN ISO 868)	82

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2 Application method

Please refer also to our general application guideline.

No handling of silicon containing substances or other products interfering with the reaction in the application area before and during application until the curing of the liquid resin.

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 EP-C500 SKY, the coating must be applied on a even PU levelling layer (e.g. VIASOL EP-C500), matched to the slightly translucent coating colour. For this see VIASOL **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 EP-C500 SKY should be applied within the recoating interval of the previous layer.

Application

The product is delivered in ready-to-use 2-component containers in the exact mixing ratio. The A-component must be stirred for at least 2–3 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. The mixture is poured into another container and briefly stirred again. 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 the application by equal batch numbers.

VIASOL EP-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 and distribution of filler. The applicator wears spiked shoes for this operation which enable him to walk in the freshly applied coating.

For cleaning of tools and other contaminations VIASOL SO-X10 tool cleaner is used.

(C) Technical Data

Liquid mixture (A+B)

1.	Mixing ratio A : B	100 : 17 by weight
2.	Working time (20°C)	20–25 min.
3.	Application temperature	10–25°C (min. 3 K above dew-point)
4.	Material consumption	1500 - 2000 g/m ²
5.	Foot traffic (20°C)	after approx. 24 hours
6.	following coating (20°C)	within 12–24 hours
7.	Fully capable of withstanding stress mechanical (20°C) chemical (20°C)	after 7 days after 28 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 VIASOL **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 EP-C500 SKY colour should be chosen.

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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3 Further information

CE-Mark



CE Mark according to EN 13813

EN 13813 "Screed material and floor screeds – properties and requirements" specifies requirements for screed material for use in floor construction internally. Resin flooring and sealer coats are also covered by this standard.

For details see CE mark and Declaration of Performance.

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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