

Product 02450100 2-comp. PU top coating, self-levelling, hard elastic, low emission, colored

1 General Data

Fields of application

VIASOL PU-C501^{VM} is used as hard-elastic coating for concrete and cementitious substrates as well as bituminous screeds, mastic asphalt and other industrial substrates that require a crack-bridging coating with good chemical and mechanical properties. When applied at a thickness of 2 mm the crack-bridging abilities are up to 0.5 mm (static, 20°C). Typical uses are industrial floorings in productions, storage areas, shopping malls and workshops.

Product description

VIASOL PU-C501^{VM} is a pigmented, ready-to use, hard elastic, low emission and solvent free two-component PU self-levelling coating. It fulfils the requirements of German AgBB, the standard for low emission in construction products. Coatings made from VIASOL PU-C501 are wear resistant, joint less and easy to clean. The product shows good chemical resistance against oils, lubricants and many other chemicals. In general, aromatic polyurethane resins are not colour stable if exposed to UV light or under influence of weathering. We recommend to apply a colour stable sealer.

VIASOL systems

VIASOL PU-C501^{VM} is a hard elastic polyurethane topping for the VIASOL System:
VIASOL **UNIFLEX**

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 contact VIACOR Asia Sdn Bhd directly.

tel: +603 5131 7777
e-mail: info@viacor.asia

(A) Technical data

Liquid mixture (A+B)

1. Density (25°C)	1.44 g/cm ³
2. Viscosity (28°C)	2900 mPas
3. Packaging size (2-component container)	25 kg (20 kg A + 5 kg B)
4. Colours	VIASOL standard
5. Shelf life	12 months in closed original container
6. Storage	Dry at 15–25°C, avoid direct exposure to sunlight

(B) Technical data

Cured material

1. Flexural strength (DIN EN 196/ASTM C109)	55 N/mm ²
2. Elongation at break (DIN 53504)	approx. 10%
3. Hardness Shore-D (DIN EN ISO 868)	approx. 75
4. Degree of shrinkage	0.06 %
5. Compressive strength (DIN EN 196/ASTM C109)	51 N/mm ²

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 – A division of VIACOR Polymer GmbH Germany

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2 Application method

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-C501^{VM} is applied directly to the primer VIASOL EP-P210^{VM} or to a VIASOL PU-C501^{VM} based levelling layer. The coating VIASOL PU-C501^{VM} must be applied no later than 24 hours after the application of the previous coat.

Application

VIASOL PU-C501^{VM} 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 component B 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 has to be avoided. The mixture is poured into another container and briefly stirred again. We recommend the application by equal batch numbers. VIASOL PU-C501^{VM} 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 enables him to walk in the freshly applied coating. Anti-skid surfaces can be obtained by broadcasting the still liquid coating with an aggregate such as corundum. It is possible to add up to 30% of silica sand (VIASOL QS F32 or QS 0.3 – 0.8)

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

(C) Technical data

Liquid mixture (A+B)

1. Mixing ratio A : B	100 : 25 by weight (kg)
2. Pot life	25°C – 20 min.
3. Application temperature:	10 – 30°C (min. 3°C above dew point)
4. Material consumption (depending on substrate) For:	
Levelling layer:	1.0 – 1.5 kg/m ²
Coating:	1.6 – 2.5kg/m ²
5. Relative humidity	max 85%
6. Following layer (20°C)	within 24 hours
7. Cure time to withstand:	
Foot traffic (25 °C)	after 24 hours
Mechanical service (25°C)	after 7 days
Exposure to chemicals (25°C)	after 28 days

Overcoating

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

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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).

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