

Product 02452300 2-comp. PU top coating, soft elastic, low emission, colored

1 General Data

Fields of application

VIASOL PU-C523^{VM} is used indoors for soft elastic, sound absorbing surfaces as self-levelling coating. Typical uses for this high-quality product are residential homes for the elderly, kindergartens, schools, clinics, social rooms, offices and in general industrial floorings.

Product description

VIASOL PU-C523^{VM} is a pigmented, low emission and solvent free, soft elastic two-component PU self levelling coating. VIASOL PU-C523 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-C523^{VM} is easy to apply and shows a good curing behaviour. 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-C523 is the elastic coating for the VIASOL systems:

VIASOLELASTIC

Characteristics

- Sound absorbing, warm to foot
- Static crack-bridging
- Soft-elastic
- Low odour

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 Asia Sdn Bhd directly.

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(A) Technical data

Liquid component

1. Solids content	99 %
2. Density (25°C)	1.56 g/cm ³ (Mixed)
3. Viscosity (28°C)	7000 – 9000 cps
4. Packaging size	15 kg (A+B 12.5: 2.5 kg)
5. Colours	pigmented
6. Shelf life	9 months in closed original container
7. storage	Dry at 10–30°C, avoid direct sunlight

(B) Technical data

Cured material

1. Adhesive strength (DIN EN ISO 4624)	>2.0 N/mm ² (concrete failure)
2. Hardness Shore A (DIN EN ISO 868)	Shore D40 after 7 days Shore A86-88 after 7 days
3. Elongation at break (DIN 53504)	>60%
4. Tensile strength (DIN 53504)	>7 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 methods

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-C523^{VM} is applied directly to the primer VIASOL EP-P210^{VM} or to a VIASOL PU-C523^{VM} based levelling layer. The coating VIASOL PU-C523^{VM} must be applied not later than 24 hours after the application of the previous coat.

Primer

Apply an epoxy primer such as or VIASOL EP-P210^{VM} by roller to the prepared surface. If the surface is porous, a second coat of primer may be necessary.

To improve inter-layer adhesion, sprinkle VIASOL QS 0.2-0.5 mm quartz sand lightly (approx. 600 g/m²) while the primer is still wet. If two coats of primer is necessary, this should be done on the second coat.

Application

VIASOL PU-C523^{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 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 has to be avoided. We recommend the application of equal batch numbers. The mixture is poured into another container and briefly stirred again. VIASOL PU-C523^{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 enable him to walk in the freshly applied coating.

Over-coating

It is not necessary to abrade the surface if the subsequent coat is applied within 24 hours. For application exceeded 24 hours or the coating has contact with dew or rain water, please contact VIACOR Technical Department for further detail.

(C) Technical data

Mixed Product

1. Mixing ratio A:B:C	12.5 : 2.5
2. Working time (25°C)	20 minutes
3. Application temperature:	10 – 30°C (min. 3K above dew point)
4. Material consumption	
Levelling layer	1.0 – 1.5 kg/m ²
Coating	1.8 – 2.5 kg/m ²
5. Foot traffic (20°C)	After 12-24 hours
6. Permissible RH %	50% - 80%
7. Re-coating interval	Within 24 hours
8. Fully cured properties:	
Mechanical (20°C)	After 7 days
Chemical (20°C)	After 7 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.

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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