

Product 02600540 2-comp. PU sealer, conductive, tough hard, coloured, matt, low emission

1 General Data

Fields of application

VIASOL PU-S6005P ESD is used as colour stable, pigmented, conductive matt sealer for tough hard and hard systems with slightly to medium mechanical load (DIN 18560 Screeds, part 7 class II and III). Sensitive surfaces will get an extra film for protection and for an easier cleaning of the floor.

Product Description

VIASOL PU-S6005P ESD is a water-based, conductive, pigmented, wear resistant, two component PU sealer based on high quality aliphatic PU resin with low emissions.

The product is colour stable and weather resistant and shows good chemical resistance against diluted acids and alkalis and many disinfectants. Depending on the substance in contact with the flooring (please not that wine or coffee etc. are also relevant) discolorations may occur, which will not reduce the usability of the flooring.

Depending on the application method VIASOL PU-S6005P ESD can have a light structure, without influence on the final properties. The use of matting seal coats / top coats leads to a change in the degree of gloss, resulting in deviations from the original colour (usually a brightening of the hue) which are physical and therefore represent no defect. In case of doubt, make a test area for better judgement.

Properties

- Coloured, matt
- conductive accord. DIN EN 61340-5-1, 4-5
- tough hard
- high UV-stability
- good abrasion resistance
- water borne, low odour and low emission

VIASOL Systems

VIASOL PU-S6005P ESD is the (optional) sealer for the VIASOL systems:

- VIASOL **UNIVERSAL ESD**
- VIASOL **UNIFLEX ESD**
- VIASOL **PERM conductive**

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 to make cleaning easier.

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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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	
<i>Mixture (A+B)</i>	
1. Density (20 °C)	ca. 1.2 g/cm ³
2. Viscosity (20°C)	ca. 200 – 300 mPas
3. Packaging size (2-component container)	16.5 kg (14 kg A + 2.5 kg B)
4. Colour	VIASOL Standard, others on request matt finish
5. Shelf life	3 months in closed original container
6. Storage	Dry at 10 – 25°C, avoid direct sunlight, protect from frost

(B) Technical Data	
<i>Cured material</i>	
1. Adhesive strength (DIN EN ISO 4624)	> 1,5 N/mm ²
2. Surface conductivity Total conductivity	5 x 10 ⁵ - 5 x 10 ⁶ Ohm depends on systems
3. Body voltage (DIN EN 61340-4-5) with walkingtest-kit WT 5000*	< 50 - 100 V (23°C/50%rel. LF)
4. Resistance to earth (DIN EN 61340-4-1) Resistance Footwear/person/floor* (DIN EN 61340-4-5) depends to the total system built-up (Metriso 2000*)	< 10 ⁹ Ω (23°C/50%rel. LF) ≤ 3,5 x 10 ⁷ Ω (23°C/50%rel. LF)



* The surface must regularly be checked for its ESD properties. The review is carried out according to a progress report "Conductive Coatings for industrial floors" of the German Construction Chemicals e. V. If the RE <3.5 x 10⁷ Ω is higher, but the body voltage is <100 V, the functionality of the conductivity meets according to DIN EN 61340-5-1.

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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.

The sealer is applied on hard-elastic and hard VIASOL-EP or PU coating systems. The sealer should be applied within the recoating interval of the previous layer.

Application

VIASOL PU-S6005P ESD is delivered in 2 component containers in the right mixing ratio. The A-component must be stirred for at least 1–2 minutes. While maintaining the stirring process the entire content of the B-component is emptied into the A-component container and the two components are mixed until homogeneous by using a suitable electric stirrer (for at least 2 – 3 minutes). The material should be passed through a sieve when pouring into another container before processing (either with a paint filter sieve of 0.6 – 1 mm mesh size, or with a household sieve with inserted fly screen or similar fabric, mesh size <1mm). Mix again briefly after re-potting the material. The incorporation of too much air should to be avoided.

VIASOL PU-S6005P ESD is poured onto the surface and evenly spread in one direction over the entire area with a roller. Then it is spread with a wide short-piled micro-fibre roller (e.g. Multitool pile-height about 6 - 8 mm) and homogeneously finished with a second roller in one direction. The formation of puddles should be avoided.

As with all water based sealers, it is important to avoid dry edges by always working wet in wet when rolling fresh material into applied wet sealer otherwise roller marks will be visible in the final finish. Time between the overlapping should not exceed 2 – 5 minutes. Open time for rolling fresh material into the applied wet sealer without leaving any marks is at room temperature 3 - 5 minutes. The relative humidity during processing and during the curing time should not exceed 75% in order to ensure a sufficiently fast evaporation of the water. It is important to ensure that connections between two pouring steps of material do not dry up as they will otherwise be visible.

When processing water based coating systems, ensure sufficient air exchange. However, draft of air should be avoid. Different material consumption, too high air humidity and low temperatures can lead to visual impairments (gloss level differences).

Direct sunlight, high temperatures and low humidity cause rapid curing and should be avoided as otherwise it may lead to skin formation, approaches or visible rake marks).

For better cleanability, the product can be sealed the next day with a transparent polymer dispersion. However, this increases the gloss level.

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

(C) Technical Data		
Liquid mixture (A+B)		
1.	Mixing ratio A : B	100 : 18 (% by weight)
2.	Material consumption	140 – 180 g/ m ²
3.	Working time (20°C)	approx. 45 min.
4.	Application temperature	15–25°C (min. 3°C above dew-point)
5.	Relative humidity	40 to max. 75%
6.	Foot traffic (20°C)	after approx. 18 hours
7.	Fully capable of withstanding stress mechanical (20°C) chemical (20°C)	after 4 days after 7 days

Overcoating

Please ask our technical support.

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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 wb products (in the ready to use state) is:

Stage II (from 2010) < 140 g/l VOC

In the ready to use state, this product contains less than 140 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).