Product 02600010 2-comp. PU sealer, colour-stable, low emission, transparent, mat

1 General Data

Fields of application

VIASOL PU-S6000 is used as transparent mat sealer for elastic and soft elastic coating systems based on low emission PU-resins. Sensitive surfaces will get an extra film for protection and for an easier cleaning of the floor.

Product Description

VIASOL PU-S6000 is a water-based, transparent, wear resistant two component PU sealer based on high quality aliphatic PU resin with low emissions. It fulfils the requirements of German AgBB, the standard for low emission in construction products.
The product is colour stable and weather resistant and has 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 of the application method VIASOL PU-S6000 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.
Please note: Transparent top coats can not avoid yellowing of an aromatic polyurethane coating system which is applied below, here a pigmented aliphatic top coat is required.

Properties

- transparent
- decorative matt
- elastic
- high UV- and colorstable
- good abrasion resistant on elastic surfaces
- easy to clean
- water borne
- low odur
- low emission (AgBB)

VIASOL Systems

VIASOL PU-S6000 is the alternative sealer for the VIASOL systems:

VIASOL ***ELASTIC UV / UV soft / UV comfort***
VIASOL ***ELASTIC SKY / SKY soft / SKY comfort***

(A) Technical Data	
Mixture (A+B)	
1. Viscosity (20°C)	ca. 100 – 300 mPas
2. Density (20°C)	ca. 1.08 g/cm³
3. Packaging size (2-component container)	11 kg (10 kg A + 1 kg B)
4. Colour	Transparent, matt
5. Shelf life	12 months in closed original container
6. Storage	Dry at 10 - 25°C, avoid direct sunlight, protect from frost.

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.
Phone: +49 (0)7472-949990
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

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2 Application Method

Please refer also to our general appliction 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 elastic VIASOL-PU coating systems. The sealer should be applied within the recoating interval of the previous layer.

Application

VIASOL PU-S6000 is delivered 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). Let the mixed material stand for pre-reaction about 3-5 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 air should to be avoided.
VIASOL PU-S6000 is poured onto the surface and evenly spread in one direction over the entire area with a roller or by using a rubber squeegee. 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).

(B) Technical Data		
Liquid mixture (A+B)		
1.	Mixing ratio A : B	10 : 1 (% by weight)
2.	Material consumption	120 – 140 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. 16 hours
7.	Fully capable of withstanding stress mechanical (20°C) chemical (20°C)	 after 4 days after 7 days

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.

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 characeristics 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 characteritics of the product.
Due to different materials, sub-bases and working conditions, no guaratee 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 vialation 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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