

Product 02069120 2-comp. Polyaspartic sealer (ESD), low emission, fast curing, UV-stable, transparent

1 General Data

Fields of application

VIASOL PU-S691 ESD is used as UV- and color-stable, transparent seal coat for with conductive coloured quartz sand broadcasted coating systems based on polyurethane or epoxy resin. VIASOL PU-S691 ESD can be used for indoor and outdoor application and cures with a glossy finish.

Product Description

VIASOL PU-S691 ESD is a low emission, solvent free, low temperature and fast curing 2 component antistatic seal coat based on Polyaspartic resin. The product has in the cured state a very good abrasion resistance, excellent weathering and color stability, is characterized by the properties of a tough-hard surface and has good resistance to diluted acids and alkalis, fuels and lubricants. Exposure to chemicals may lead to optical discoloration that will not affect the technical usability of the flooring (see chemical resistance list). The seal coat supports the assured system properties for the ESD requirements in system VIASOL **DESIGN ESD**.

VIASOL PU-S691 ESD has a low susceptibility to pollution and is easy to clean.

Properties

- low emission, solvent free
- fast and low temperature curing
- abrasion resistant
- antistatic to meet the ESD requirements

VIASOL systems

VIASOL PU-S691 ESD is an optional seal coat for the VIASOL systems:

VIASOL **DESIGN QCV ESD**

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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Manufacturer:

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(A) Technical Data

Liquid mixture (A+B)

| | |
|---|--|
| 1. Viscosity (23 °C) | ca. 500 - 1500 mPas |
| 2. Density (20 °C) | ca. 1.1 g/cm ³ |
| 3. Packaging size (2-component container) | 18.5 kg (10.5 kg A + 8 kg B) 9.3 kg (5.3 kg A + 4 kg B) |
| 4. Colour | transparent, glossy |
| 5. Shelf life (20 °C) | 12 months in originally closed container |
| 6. Storage | Dry at 15-25°C, avoid direct sunlight |



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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.

VIASOL PU-S691 ESD is applied on VIASOL EP- or PU wear coats broadcasted with conductive colored quartz sand or other suitable materials.

VIASOL PU-S691 ESD can be applied after the waiting time for overcoating mentioned in the specific product data sheet of the previous layer is over.

Application

VIASOL PU-S691 ESD 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). The inclusion of air in the mixing process is to be avoided. The mixture is poured into another container and briefly stirred again.

VIASOL PU-S691 ESD is poured onto the surface and spread over the entire area using a rubber squeegee. Then it is rolled with a short-piled microfiber roller (e. g. Multitool microfiber 8 mm) in one direction or a criss-cross manner. The formation of puddles should be avoided. As finish the seal coat has to be rolled in one direction with the microfiber roller.

The drying time for seams of the wet sealer is 3 – 5 minutes (at 20°C and 50% rel. humidity – higher temperatures and higher humidity will shorten the drying time).

NOTE: The roller should be replaced after 30 minutes, otherwise microbubbles and roller tracks may appear on the floor caused by cured material the roll.

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

Over coating

Please contact our technical support.

(B) Technical Data

Liquid mixture (A+B)

| | |
|---|--|
| 1. Mixing ratio A : B | 100 : 76 (% by weight) |
| 2. Material consumption | 600 – 700 g/ m ² |
| 3. Working time (20 °C) Drying time for seams during application (20°C) | approx. 15 minutes 3 – 5 minutes |
| 4. Application temperature | 5 – 40 °C (min. 3°C above dew point) |
| 5. Relative humidity | 40 to max. 85% |
| 6. Foot traffic (20 °C) | after 2- 4 hours (depending on film thickness) |
| 7. Fully capable of withstanding stress mechanical (20 °C) chemical (20 °C) | after 6 hours after 1 day |
| 8. Fully cured (earliest water stress): | at + 23°C after 2 days. Longer duration of water loads or longer dammed-up water should be avoided since it may effect white surface discoloration (not applicable to wet loads that are required for daily cleaning maintenance) |

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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 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 user's responsibility to obtain the most recent issue (see www.viacor.de or contact us directly).

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