VIASOL PU-S691 P **Technical Data Sheet**

Product 02069110 2-comp. Polyaspartic sealer, fast curing, UV-stable, coloured

1 General Data

Fields of application

VIASOL PU-S691 P is used as UV- and color-stable, coloured seal coat for coating systems based on polyurethane or epoxy resin broadcasted with coloured quartz sand. VIASOL PU-S691 P can also be used as a fast curing broadcasting layer and primer on cementitious substrates. VIASOL PU-S691 P is suitable for indoor and outdoor application and cures with a glossy finish.

Product Description

VIASOL PU-S691 P is a low emission (in accordance with the criteria of the Committee for the Health Assessment of Building Products (AgBB), tested using the VIASOL UNIVERSAL SR system), solvent free, low temperature and fast curing 2 component product based on polyaspartic resin. The product has a very good abrasion resistance in the cured state, 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).
VIASOL PU-S691 P is easy to clean.

Properties

- solvent free
- fast and low temperature curing
- abrasion resistant

VIASOL systems

VIASOL PU-S691 P is used as primer, broadcasting layer and/or seal coat in the VIASOL systems:

VIASOL ***UNIVERSAL SR***
VIASOL ***UNIFLEX SR***
VIASOL ***PROTECTIVE rapid***
VIASOL ***EXPRESS***

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 of smooth coatings 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.
Phone:+49 7472 94999-0
E-Mail: info@viacor.de

(A) Technical Data		
Liquid mixture (A+B)		
1.	Viscosity (23 °C)	ca. 800 - 1200 mPas
2.	Density (20 °C)	ca. 1.2 g/cm³
3.	Packaging size (2-component container)	18 kg (12 kg A + 6 kg B) 9 kg (6 kg A + 3 kg B)
4.	Color	VIASOL standard, others on request
5.	Shelf life (20 °C)	12 months in originally closed container
6.	Storage	Dry at 10-25°C, avoid direct sunlight

(B) Technical Data		
Liquid mixture (A+B)		
1.	Mixing ratio A : B	100 : 50 (% by weight)
2.	Material consumption	600 – 900 g/ m²
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)
	Fully capable of with-standing stress mechanical (20 °C) chemical (20 °C)	 after 6 hours after 1 day

Manufacturer:
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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 P is applied on VIASOL EP or PU coatings broadcasted with colored quartz sand or other suitable materials. It can be applied after the waiting time for overcoating mentioned in the specific product data sheet of the previous layer is over.
When using VIASOL PU-S691 P as a primer on cementitious substrates, the substrate must be prepared by shot blasting or grinding. Coarse impurities can be removed by milling. The substrate must have an adhesive tensile strength of at least 1.5 N/mm². It must also be free of oily, greasy or separating impurities and loose parts. Cracks and cavities must be removed properly beforehand.

Application

The product is supplied in matched quantities in 2-component containers. The B component must be completely emptied into the A component (stir component A previously). Both components should be mixed homogeneously with a suitable electric stirrer for at least 2-3 minutes and then the mixture should be poured in another container and mixed again for about 1 minute. The mixing in of air should be avoided. We recommend the application by equal batch numbers. When processing several batches on one site, the last containers of the 1st batch must be mixed with the first containers of the next batch.

Primer: VIASOL PU-S691 P is poured in portions onto the surface to be primed and spread evenly over the surface with a rubber squeegee. The application must be film-forming and pore-free. The primer is then rolled on with a nylon roller. To improve the intercoat adhesion, quartz sand (approx. 800 g/m² VIASOL QNV2-ad, 0.3-0.8 mm) can be broadcasted on.

Broadcasting layer: VIASOL PU S691 P is poured in portions onto the surface to be coated and applied with a notched trowel (Polyplan No. 7 to 25 or Multitool No. S8 to S3) in the desired layer thickness covering the entire surface. To achieve a uniform layer thickness, the toothed strips must be replaced at regular intervals.
If necessary, before spreading the bedding material, it can be re-rolled with a surface roller or a texture roller to distribute the material evenly.

VIASOL PU-S691 P is sprinkled with quartz sand in excess. To achieve slip resistance class R11, VIASOL QNV2 (approx. 0.3-0.8 mm) or for R12 VIASOL QNV3 (approx. 0.6-1.2 mm) is used. The slip resistance class can be reduced by additional grinding of the scattering grain.

Sealer: VIASOL PU-S691 P is poured in portions onto the surface to be sealed and spread evenly over the surface with a rubber trowel (hard or soft) or a rubber pusher. Puddle formation and spatula strokes must be avoided. If necessary, a short-pile microfiber roller (e.g. Multitool Microfiber 6 / 8 mm) is used immediately after application to roll in one direction, if possible without settling in the web. The working time at 20°C and 50% relative humidity is max. 3 - 5 minutes at room temperature. Higher temperatures and higher humidities shorten the working time. Late re-rolling may cause fine air bubbles in the surface.

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-X14 cleaner is recommended.

For further information regarding application and over coating please contact 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 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 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 user's responsibility to obtain the most recent issue (see www.viacor.de or contact us directly).

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