

VIASOL PU-L315 (L) Technical Data Sheet

Product 02031500 2-comp. PU wear coat, for car park decks and industrial floors
02031510 (L)

1 General Data

Fields of application

VIASOL PU-L315 (L) is used as tough hard wear coat in VIASOL **DECK** systems for slip resistant surfaces open to traffic with cars or fork-lift-trucks.

VIASOL PU-L315 (L) is available with 2 different types of curing speed.

Product description

VIASOL PU-L315 (L) is a solvent-free, ready-to-use, low viscosity coating material based on a two-component polyurethane resin.

The product is available with two different curing characteristics:

VIASOL PU-L315 is fast curing (for small areas and low temperature)

VIASOL PU-L315 L has a long curing time (for large areas or higher temperatures).

The properties of the cured product are the same for both.

VIASOL PU-L315 (L) with its excellent abrasion resistance is used as wear coat in VIASOL car park deck and industrial floor systems for slip resistant surfaces.

Properties

- solvent free
- fast and low temperature curing
- L: long curing time for temperatures > 25°C
- abrasion resistant
- crack bridging

VIASOL Systems

VIASOL PU-L315 (L) is the wear coat for the VIASOL systems:

VIASOL **DECK spray EP/UV**

VIASOL **DECK M EP/UV**

VIASOL **EXPRESS protective**

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. Solids content	99 %
2. Density (20°C)	approx. 1.1 g/cm ³
3. Viscosity (20°C)	1800-2200 mPas
4. packaging size (2-component container)	25 kg (17.0 kg A + 8.0 kg B)
5. Color	greybeige
6. Shelf life (20 °C)	12 months in closed original container
7. Storage	Dry at 10 – 25° C, avoid direct sunlight

(B) Technical Data

Cured Material

1. Adhesive strength (DIN EN ISO 4624)	> 1.5 N/mm ²
2. Shore-D-hardness (DIN EN ISO 868)	approx. 65
3. Elongation at break (DIN 53504)	approx. 55 %
4. Tensile strength (DIN EN 196/ASTM C109)	approx. 22 N/mm ²

Manufacturer:

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2 Application Method

Please refer also to our general application guideline.

Substrate Preparation

VIASOL PU-L315 (L) is applied directly on the spray applied membranes or on EP and PU primers. The substrate must be clean and free of dust and loose particles. The wear coat should be applied within the application interval of the spray membrane or the fast curing primers. In case of longer breaks before over coating, please contact our technical support.

Note: VIASOL-PU-L315 (L) is not suitable to apply directly on cementitious substrates.

Application

The product is delivered in ready-to-use 2-component containers in the exact mixing ratio. The A-component must be stirred for at least 2–3 minutes. Then the entire content of the A-component is emptied into the B-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-L315 (L) is poured onto the surface and spread over the entire area using a serrated spatula (tooth size Polypplan no. 7 up to 25 or Multitool no. S8 up to S3). To achieve uniform layer thicknesses, the tooth rows of the spatula must be regularly replaced. For thin-layer-application, the material must be rolled with a structured roller to distribute the material evenly

Then fire-dried quartz sand is broadcasted in excess on top of the liquid material. Depending on the desired roughness (anti-skid properties), QS 0.3-0.8 mm (e.g. VIASOL QNV2) or QS 0.6-1.2 mm (e.g. VIASOL QNV3) is used.

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

Over coating

It is not necessary to abrade the surface if the following coat is applied within 36 h. For application after 36 h please contact our technical support.

If the coating has contact with humidity (rain or dew) the whole area must be dried thoroughly and primed with VIASOL PU-P255 to achieve good adhesion before over coating.

(C) Technical Data	
Liquid mixture (A+B)	
1. Mixing ratio A: B	100 : 47 by weight
2. Working time	
VIASOL PU-L315: at 10°C	approx. 25 min.
at 20°C	approx. 15 min.
at 30°C	approx. 8 min.
VIASOL PU-L315 L at 10°C	approx. 45 min
(L) at 20°C	approx. 25 min
(L) at 30°C	approx. 15 min
3. Working temperature	(min. 3K above dew-point)
VIASOL PU-L315:	5-25°C
VIASOL PU-L315 L	10-30°C
4. Permissible rel. air humidity	max. 80%
5. Material consumption	ca. 500 – 1200 g/m ²
6. Foot traffic: (10°C)	
VIASOL PU-L315: (10°C)	after 4 – 6 hours
(20°C)	after 2.5 – 3.5 hours
VIASOL PU-L315 L (10°C)	after 14 – 16 hours
(20°C)	after 8 – 10 hours
7. Consecutive coating (20°C)	
VIASOL PU-L315:	within 4 – 18 h
VIASOL PU-L315 L	within 8-24 h
8. Fully capable of withstanding stress (20 °C)	
mechanical VIASOL PU-L315	after 2 days
VIASOL PU-L315 L	after 4 days
chemical VIASOL PU-L315	after 5 days
VIASOL PU-L315 L	after 8 days

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3 Further information

CE-Mark



CE-Mark according to EN 1504-2

Details see CE-conformity mark and declaration of performance.

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

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