

Product 02431000 2-Comp. polyurethane elastic membrane, wear coat and top coat for VIASOL**DECK** car park systems

1 General Data

Fields of application

VIASOL PU-L310^{VM} is used as an elastic membrane, wear coat and a top coat in VIASOL**DECK** car park systems for waterproofing and sealing/binding the anti-slip aggregates on the surface to provide perpetual safety to vehicular traffic especially in wet conditions.

Product description

VIASOL PU-L310^{VM} is a tough, 2 components, solvent free polyurethane coating designed for use as membrane and to bind/seal the anti-slip aggregates surface of VIASOL**DECK** car park systems. It is hard wearing and durable offering longevity in service against vehicular traffic.

Features & Benefits

Environmentally preferred coating – Green Label certified by Singapore Environmental Council (SEC)

Crack bridging capability – provide waterproofing function

Wear resistant – hard wearing even in harsh and punishing environment

Low / no odour – low VOC

Solvent Free – non-flammable, no fire hazard

VIASOL systems

VIASOL PU-L310^{VM} is used for the VIASOL System:
VIASOLDECK** 11b plus**
 (formerly known as VIASOL**DECK** ID)
VIASOLDECK** 11a plus**
 (formerly known as VIASOL**DECK** TD)

Care and maintenance

The lifespan and performance of your resin floor can be extended considerably by adopting a regular cleaning and care programme. We recommend the use of an alkaline based cleaning agent.

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 Asia Sdn Bhd directly.

Tel: +603 5131 7777

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(A) Technical data

Liquid mixture (A+B)

1. Solids content	99 %
2. Density (25°C)	1.34 g/cm ³ (Mixed)
3. Viscosity (25°C)	5000 – 6000 mPas
4. Packaging size	15 kg (12.3 kg A + 2.7 kg B)
5. Colours	Grey 1, Grey 2, White, Green, Red and Blue
6. Shelf life	9 months in closed original container
7. Storage	Dry at 10–30°C, avoid direct sunlight

(B) Technical data

Cured material

1. Adhesive strength (DIN EN ISO 4624)	>1.5 N/mm ² (concrete failure)
2. Hardness (DIN EN ISO 868)	Shore D60-68 after 7 days Shore A95-98 after 7 days
3. Tensile strength (DIN 53504)	>10 N/mm ²
4. Elongation at break (DIN 53504)	>20%



032-152-3113
 Environmentally Preferred
 Coating

Manufacturer:

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2 Application methods

Substrate preparation

New concrete must be allowed to cure for a minimum of 28 days.

Repair imperfections (holes and cracks) with an epoxy patching compound such as VIASOL EP-T703^{VM} where necessary.

Remove surface laitance, contaminants, coating, curing compound and all weak and loose materials.

Prepare substrate by Captive Shot Blasting or scarifying to provide the appropriate surface profile for optimum mechanical interlocking.

Primer

Apply an epoxy primer such as VIASOL EP-T703^{VM} or VIASOL EP-P210^{VM} by roller to the prepared surface. If the surface is porous, a second coat of primer may be necessary.

To improve inter-layer adhesion, sprinkle VIASOL QS 0.2-0.5 mm quartz sand lightly (approx. 600 g/m²) while the primer is still wet. If two coats of primer is necessary, this should be done on the second coat.

Application

Before starting the application, the material temperature must be close to site conditions.

Mix Component A for 2-3 minutes.

Empty contents of Component B (Hardener) into Component A (Base Resin). Mix with a suitable mixer at a speed of 500 rpm to avoid incorporating excessive air into the mixture. Mix for 2-3 minutes.

Transfer the mixture into another clean container and mix for 1-2 minute.

For VIASOL**DECK 11a plus** system, pour the mixture onto the primed surface as membrane and spread over the entire area using a nominated notched trowel to provide the required thickness.

Allow to cure over-night and apply the next layer with VIASOL PU-L310^{VM} as base coat, spread over the entire area using a nominated notched trowel to provide the required thickness, broadcast to excess the nominated (0.3-0.4 mm or 0.7-1.2mm) anti-slip aggregates while still wet.

Allow to cure over-night, sweep/vacuum off excess/loose anti-slip aggregates before proceeding to apply VIASOL PU-L310^{VM} top coat, pour the mixture onto the prepared surface and back roll with a long nap mohair roller in a criss-cross manner. Plan the application to maintain wet on wet overlap of coating to minimize the rub-out effect.

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(C) Technical data

Mixed Product

1. Mixing ratio A : B	100 : 22 by weight (kg)
2. Working time (25°C)	20 – 25 minutes
3. Application temperature	10 – 30°C (min. 3°C above dew point)
4. Material consumption	
Elastic membrane (DECK 11b plus)	1.2 – 1.4 kg/m ²
Base coat / wear coat	1.2 – 1.4 kg/m ²
Top coat	0.5 – 1.0 kg/m ²
5. Foot traffic (25°C)	After 12 hours
6. Permissible RH %	50% - 80%
7. Re-coating interval	Within 24 hours
8. Fully cured properties:	
Mechanical (25°C)	After 2 days
Chemical (25°C)	After 5 days

Allow to cure over-night before proceeding to apply the top coat, VIASOL PU-S650^{VM} or VIASOL PU-S6501^{VM}.

For VIASOL**DECK 11b plus** system, sweep/vacuum off excess/loose anti-slip aggregates from the base coat with VIASOL PU-L310^{VM} before proceeding to apply VIASOL PU-L310^{VM} top coat, pour the mixture onto the prepared surface and back roll with a long nap mohair roller in a criss-cross manner. Plan the application to maintain wet on wet overlap of coating to minimize the rub-out effect.

Allow to cure over-night before proceeding to apply the top coat, VIASOL PU-S650^{VM} or VIASOL PU-S6501^{VM}.

For cleaning of tools and other contaminations use VIASOL SO-X10 cleaner.

Over-coating

No primer is required on VIASOL PU-L310^{VM} surface when it is less than 24 hours after application.

It is not necessary to abrade the surface if the subsequent coat is applied within 24 hours. For application exceeded 36 hours or the coating has contact with dew or rain water, please contact VIACOR Technical Department for further detail.

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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.

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.asia).

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