

Product 02456500 4-comp. PU coating, solvent-free, coloured

1 General Data

Fields of application

VIACRETE PU-TC^{VM} is used as a protective coating in situations subject to constant exposure to aggressive chemicals, high heat cleaning and mechanical abuses such as dairy, food & beverage production facilities, warehouse & distribution centres, chemical and minerals processing plants and waste treatment plants. It is normally used in 0.3 – 0.5 mm thickness as a top coat over VIACRETE PU-MF wear coat broadcast.

Product description

VIACRETE PU-TC^{VM} is a 4-component, high build polyurethane coating. It has excellent mechanical and chemical properties. It is resistant to organic acids, dilute mineral acids, vegetable and animal fats, petroleum oils and solvents. It is suitable for use in conditions of a wide temperature range between 0°C and +90°C. VIACRETE PU-TC^{VM} is not colour stable when exposed to UV and weathering.

Features & Benefits

Excellent chemical resistance – resists organic acids, dilute mineral acids, vegetable and animal fats, petroleum oils and solvents

High impact/abrasion resistance – resists mechanical wear and heavy vehicular traffic

High thermal shock resistance – withstands hot water and steam cleaning

Anti-Bacterial

HACCP International certified product

Fast curing – trafficable in 24 hours

Matt finish – easy to keep clean and maintain

Odorless – non-tainting to food

Solvent free – non-flammable, no fire hazard

Wide service temperatures – 0°C to 90°C

VIACRETE systems

VIACRETE PU-TC^{VM} is the top coat for the VIASOL system:

VIACRETE **STANDARD SR**

or other systems.

(A) Technical data

Liquid mixture (A+B)

1. Solids content	99 %
2. Density (25°C)	1.50 g/cm ³
3. Viscosity (25°C)	A+B: 500-1000 mPas
4. Packaging size (4-component)	10.5 kg (+ 0.175 kg colour paste) (3 kg A + 3 kg B + 4.5 kg C + 0.175 kg colour paste)
5. Colour	Green, buff, red, grey, beige, light grey, sky 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 ISO 4624)	> 1.5 N/mm ² (concrete failure)
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Care and maintenance

The lifespan & 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

e-mail: info@viacor.asia

Manufacturer:

VIACOR Asia Sdn Bhd, No. 5 Jalan Sungai Terap 32/182, Bukit Rimau Industrial Park, 40460 Shah Alam, Selangor Darul Ehsan, Malaysia, tel: +603 5131 7777, fax: +603 5131 7878, mail: info@viacor.asia, www.viacor.asia – A division of VIACOR Polymer GmbH Germany

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2 Application method

Substrate preparation

VIACRETE PU-TC is applied directly onto the cleaned VIACRETE PU-MF wear coat, which is broadcast with quartz sand or other aggregates (within 24 and hours) as VIACRETE topping system without grinding the surface. If longer than 24 hours, a light grind is required. Furthermore, it could be applied on VIACRETE PU-VC skirting's and vertical applications.

Primer

No primer is required on existing VIACRETE PU-MF broadcast wear coat.

Application

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

Dispense the colour paste into component A. Mix to disperse the colour paste (1 minute) until homogeneous using a helical mixer at a speed of 350-600 rpm. Add component B and mix (1.5 to 2 minutes) until homogeneous.

Add component C gradually to the mix with the mixer running. Move the mixer around from side to side and top to bottom and scrap the sides of the mixing vessel to ensure thorough mixing, until homogeneous (2 – 3 minutes).

Transfer the mixture to another clean container and mix for 1 minute.

The mixed material is poured onto the surface and spread over the entire area using a hard or soft rubber squeegee. Then it is rolled with a short-piled microfiber roller (e. g. Multitool microfiber 6 or 8 mm) in one direction. The formation of puddles should be avoided. As finish we recommend to roll in one direction with the microfiber roller. The drying time for seams of the wet sealer is approx. 5 - 7 minutes (at 20°C and 50% rel. humidity – higher temperatures and higher humidity will shorten the drying time).

Ensure to maintain continuity of wet material between pours.

Subsets cannot be mixed because only complete sacks of filler may be processed.

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

(C) Technical data

Liquid mixture (A+B)

1. Mixing ratio A : B : C : CP	3 : 3 : 4.5 : 0.175 by weight (kg)
2. Working time (25°C)	approx. 5 - 7 minutes
3. Application temperature	10 – 30°C (min. 3°C above dew point)
4. Material consumption	0.5 - 1.0 kg/m ²
5. Overcoating (25°C)	within 12 - 24hours
6. Cure time to withstand:	
Foot traffic	after 12 – 20 hours
Heavy traffic	after 2 days
Exposure to chemical	after 7 days

Overcoating

Over coating should be carried out within 24 hours after application of VIACRETE PU-TC. If longer than 24 hours, it is necessary to lightly grind the surface before over-coating is carried out.

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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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