

Product 02556500 4-comp. PU top coating, appr. 0.5 -0.8 mm, solvent-free, colored

1 General Data

Fields of application

VIACRETE PU-TC is used as a top coat on with QS or other aggregates broadcasted VIASOL PU-MF layer in subject to exposure to aggressive chemicals, high heat cleaning and mechanical abuses such as dairy, food & beverage production facilities, chemical processing plants and waste treatment plants. It is normally used in 0.5 – 0.8 mm thickness as a top coat over a VIACRETE PU-MF screed or on vertical VIACRETE PU-VC.

Product description

VIACRETE PU-TC is a 4-component, high build polyurethane coating. It has excellent mechanical and chemical resistance 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 -15°C and +90°C. Exposed to UV and weathering VIACRETE PU-TC is not color stable.

Characteristics

- good chemical resistance
- defined slip resistance
- high impact and abrasion resistance
- high thermal shock resistance
- wide service temperatures -15°C - +90°C
- complies to HACCP requirements
- odorless, non-tainting to food
- solvent free
- low emission

VIASOL systems

VIASOL PU-TC is the top coat the VIASOL system:

VIACRETEMF standard SR

and for other applications as vertical top coats.

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 alkali-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 Polymer GmbH directly.

Phone: +49 (0)7472-949990

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(A) Technical data

Liquid mixture (A+B)

1. Solids content	99 %
2. Density (23°C)	1.62 g/cm ³
3. Viscosity (23°C)	3.200 mPas
4. Packaging size (4-component)	25.08 kg (6 kg A + 6 kg B + 12.0 kg TC + 4 x 0.27 kg color paste)
5. Color	green, oxide-yellow, red, grey, beige, cream, grey- brown
6. Shelf life	9 months in closed original container 6 month comp. C1
7. Storage Protect from frost!	Dry at 10–30°C, avoid direct sunlight

(B) Technical Data

Cured material

1. Flexural strength (DIN EN ISO 196/ ASTM C109)	>26 N/mm ²
2. Compressive strength (DIN EN ISO 196/ ASTM C109)	>49 N/mm ²
3. Hardness Shore-A (EN ISO 868)	approx. D 77 (28d)
4. Fire classification (EN 13501-1)	Bfl-S1
5. Water absorption coefficient (EN 1062-3)	w < 0,01 kg/m ² h ^{0,5}



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2 Application method

Please note our general processing guidelines for VIACRETE systems. VIACRETE systems should only be processed by trained personnel.

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 or on VIACRETE PU-VC.

Application

Before starting the application, the material temperature must be close to the site conditions but should have min. 10°C.

Dispense the colour paste into Component A. Mix to disperse the colour paste (1 minute) until homogeneous, add Component B and mix (1.5 to 2 minutes) until homogeneous using an electric stirrer with a speed of min. 300 rpm.

Add component filler TC gradually to the mix with the mixer running, until homogeneous (min. 3 minutes). Pour the mixed material in another pail and mix short (1 minute) again to avoid mixing errors.

If necessary, scrap the sides and the bottom of the mixing vessel to ensure thorough mixing.

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-X14 tool cleaner.

(C) Technical data

Liquid mixture (A+B)

1. Mixing ratio A : B Mixture A : B : C : CP	1 : 1 by weight (kg) 6 : 6 : 12.0 : 4 x 0.270 by weight (kg)
2. Working time (23°C)	approx. 10-15 minutes
3. Application temperature:	10 – 30°C (min. 3°C above dew point)
4. Permitted rel. air humidity*	min. 40 % - max. 90 %
5. Material consumption vertical	0.8 - 1.4 kg/m ² 0.2 – 0.4 kg/m ²
6. Over coating (23°C)	within 12 - 24hours
7. Cure time to withstand*: Foot traffic Heavy traffic Exposure to chemical	after 12 – 20 hours after 2 days after 7 days

* At low temperatures and low humidities (<40% relative humidity), the curing times and thus the times for recoating and walkability are delayed.

Over coating

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.

Manufacturer:

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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.

Deco paint-Guidelines (EU 2004/42/EG)

The maximum allowable VOC content for Product Category IIA j Type wb products (in the ready to use state) is:

Stage II (from 2010) < 140 g/l VOC

In the ready to use state, this product contains less than 140 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 trademark 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.asia).