

Product 02455010 5-comp. PU screed, trowel applied 6-9 mm, solvent-free, coloured

1 General Data

Fields of application

VIACRETE PU-UD^{VM} is used 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 as a topping on concrete floor at 6 – 9 mm thickness.

Product description

VIACRETE PU-UD^{VM} is a 5-component, seamless polyurethane concrete flooring system designed for application by hand trowel. 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 wide temperature conditions between -25°C and +120°C. VIACRETE PU-UD^{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

Seamless matt finish – easy to keep clean and maintain

Odorless – non-tainting to food.

Solvent free – non-flammable, no fire hazard.

Wide service temperatures -from

- 15°C to +100°C (6mm)

- 25°C to +120°C (9mm)

VIACRETE systems

VIACRETE PU-UD^{VM} is the topping for the VIACRETE system:

VIACRETE **UD heavy duty**

(A) Technical data

Liquid mixture (A+B)

1. Solids content	99 %
2. Density (25°C)	2.13 g/cm ³
3. Viscosity (25°C)	A+B: 500-1000 mPas
4. Packaging size (5-component)	33 kg (+ 0.175 kg colour paste) (3 kg A + 3 kg B + 14 kg C + 13 kg D + 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 VIACRETE products, please refer to the VIACRETE System Planner or contact VIACOR Asia Sdn Bhd directly.

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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

Concrete substrate shall be firm, clean and dry with a compressive strength of 25 MPa and pull-off strength of 1.5 N/mm² minimum.

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

Repair imperfections (holes and cracks) with VIASOL EP-T703^{VM} combined with quartz sand and make good the grading and levelling where necessary.

Remove surface laitance, contaminants, coating, curing compound and all weak and loose materials. Prepare concrete surface by diamond grinding, scarifying or captive shot blasting to provide the appropriate surface profile for optimum mechanical interlocking.

Cut grooves of 6 mm width and 8 mm depth minimum just inside the perimeter of the area and around drains, columns and protrusions where VIACRETE PU-UD^{VM} will be applied.

Primer

Apply VIACRETE PU-MF^{VM} (using only 8 kg instead of 14 kg of Filler C Component) at a consumption rate of approx. 1kg/m² as a scratch coat and allow to cure 12 to 16 hours before applying VIACRETE PU-UD^{VM}. If the surface is porous, a second coat of primer may be necessary.

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 and component D 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.

(C) Technical data

Liquid mixture (A+B)

1. Mixing ratio A : B Mixing ratio A : B : C : D : CP	1: 1 by weight (kg) 3 : 3 : 14 : 13 : 0.175
2. Working time (25°C)	approx. 20-25 minutes
3. Application temperature	10 – 30°C (min. 3°C above dew point)
4. Material consumption (PU mortar)	2.3 kg/m ² per mm 13.8 kg/m ² for 6 mm
5. Overcoating (25°C)	within 12 – 24 hours
6. Cure time to withstand:	
Foot traffic	after 12 – 20 hours
Heavy traffic	after 2 days
Exposure to chemical	after 7 days

Pour the wet mix on the prepared floor. Spread over the floor area at the nominated thickness using a spreader box, pin rake or notched trowel.

Ensure to maintain continuity of wet material between pours (max. 5 – 7 minutes). Apply with a straight edge hand trowel.

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

Overcoating

Overcoating should be carried out within 24 hours after application of VIACRETE PU-UD^{VM}. 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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