

Product 02559000 3-comp. PU mortar, for vertical surfaces and skirtings, colourless

1 General Data

Application

VIACRETE PU-VC is used as PU mortar for skirtings and also for vertical surfaces in areas, where high chemical, high thermal and mechanical loads are required, e.g. in dairies, production sites in the food and beverage industry, warehouses and logistic areas and also pharmaceutical and chemical plants. It is used as unpigmented mortar in layer thickness up to 6 mm and as skirting mortars. It is always applied on a fresh primer with VIACRETE PU-SC (wet-in-wet). Skirtings and vertical surfaces are covered with the pigmented top coat VIACRETE PU-TC.

Product description

VIACRETE PU-VC is a 3-component polyurethane concrete mortar. It has excellent mechanical and chemical resistance. It is resistant versus different organic acids, diluted inorganic acids and vegetable fats and oils. It is used in areas with thermal stress from -15 °C and +90 °C (depends on layer thickness). VIACRETE PU-VC is covered with a pigmented top coat. Exposed to UV and weathering VIACRETE PU-products are not color stable.

Characteristics

- good adhesion to cementitious substrates
- high impact and abrasion resistance
- high thermal shock resistance (-15°-+90°C)
- wide service temperatures depending on system
- complies to HACCP requirements
- odorless, non-tainting to food
- solvent free
- low emission

VIASOL systems

VIASOL PU-VC is the mortar for skirtings and vertical applications in all VIACRETE systems.

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.

(A) Technical Data	
Liquid mixture (A+B+VC)	
1. Solid content	99 %
2. Density (23°C)	2.22 g/cm ³
3. Viscosity (23°C)	Plastic mortar
4. Packaging size (3-component)	13.66 kg (0.83 kg A + 0.83 kg B + 12 kg VC-ad)
5. Colour	nature
6. Shelf life (20°C)	9 months in closed original containers 6 months comp. VC-ad
7. Storage conditions	Dry at 10–25°C, avoid direct sun light. Protect from frost!

(B) Technical Data	
Cured	
1. Flexural strength (DIN EN ISO 196/ASTM C109)	>7 N/mm ²
2. Compressive strength (DIN EN ISO 196/ASTM C109)	>27 N/mm ²
3. Water absorption coefficient (EN 1062-3)	w < 0.01 kg/m ² h ^{0.5}



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.

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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-VC is applied directly on the fresh, wet primer with VIACRETE PU-SC (wet-in-wet). If recoating interval is exceeded a suitable adhesion promoter is required.

Application

Before starting the application, the material temperature must be close to the site conditions but should have min. 10°C. Mix component A short to disperse (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. Fill the mixture in a mixing pail (min. 15 liter volume) and add component Filler VC-ad by running mixer (use double stirrer). Mix until the mixture is homogenous (min. 3 minutes) to avoid mixing errors.

To insure a homogenous mixture scratch unmixed material from pail wall and bottom and mix it again. The mixing times for all mixtures must be the same.

Apply the fresh mixture to the wall surfaces using a trowel or smoothing trowel in the desired thickness and then smooth. Make sure that a continuous material recharge is guaranteed and a connection between the different mixtures within 5 - 7 minutes is guaranteed.

For skirtings and triangular bases, apply the fresh mixture to the primed surface by using a spatula or skirting tool, draw it into the desired shape and compact the mortar. The wall and skirtings are sealed after 12 - 24 hours with VIACRETE PU-TC using a paint roller and brush. For bright colours a 2nd seal will be perhaps required.

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

For cleaning of tools and other contaminations, VIASOL SO-X14 tool cleaner is used.

(C) Technical Data

Liquid mixture (A+B+TC+colour paste)

1. Mixing ratio: A : B	1 : 1 by weight (kg)
Mixing ratio A : B : VC-ad	0.83 : 0.83 : 12
2. Working time (20°C)	ca. 10–15 minutes
3. Processing temperature:	10 – 30°C (min. 3°C above dew point)
4. Permitted rel. air humidity*	min. 40 % - max. 90 %
5. Material consumption	2,25 kg/m ² je mm
6. Overcoating (20°C)	within 12 – 24 Stunden
7. Cure time to withstand*:	
Recoatable	after 12 – 20 Stunden
Heavy traffic	after 2 Tagen
Exposure to chemicals	after 7 Tagen

* 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-VC. If longer than 24 hours, it is necessary to lightly grind the surface before overcoating is carried out or by using a suitable adhesion promoter. For bright colours a 2nd seal will be perhaps required.

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.de or contact us directly).