

Product 02465100 3-comp. PU mortar, skirting and vertical surface, nature color

## 1 General Data

### Fields of application

FLOORCRETE PU-VC<sup>FF</sup> is used as PU mortar for skirting 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. It is always applied on a fresh primer FLOORCRETE PU-SC<sup>FF</sup> (or FLOORCRETE PU-MF<sup>FF</sup>, use 8kg instead of 14kg of Filler C Component) (wet-in-wet). Skirting and vertical surfaces are covered with the pigmented top coat FLOORCRETE PU-TC<sup>FF</sup>.

### Product description

FLOORCRETE PU-VC<sup>FF</sup> 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). FLOORCRETE PU-VC<sup>FF</sup> is covered with a pigmented top coat. Exposed to UV and weathering FLOORCRETE PU-products are not color stable.

### Characteristics

- Good adhesion to cementitious substrate
- High impact/abrasion resistance
- High thermal shock resistance (-15°C to 90°C)
- Anti-Bacterial
- HACCP International certified product
- Odorless, non-tainting to food
- Solvent free
- Wide service temperatures depending system

### FLOORCRETE systems

FLOORCRETE PU-VC<sup>FF</sup> is the mortar for skirting and vertical applications in all FLOORCRETE systems.

#### (A) Technical data

##### Liquid mixture (A+B+C)

1. Solids content	99 %
2. Density (25°C)	2.24 g/cm <sup>3</sup>
3. Viscosity (25°C)	Plastic mortar
4. Packaging size (3-component)	15.6 kg (0.9 kg A + 0.9 kg B + 13.8 kg C)
5. Colour	nature
6. Shelf life	9 months in closed original container. 6 months for Comp. C (filler)
7. Storage	Dry at 10–30°C, avoid direct sunlight

#### (B) Technical data

##### Cured material

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

### 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 FLOORCRETE products, please refer to the FLOORCRETE System Planner or contact Floorfinder Asia Sdn Bhd directly.

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#### Manufacturer:

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## 2 Application method

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

### Substrate preparation

FLOORCRETE PU-VC<sup>FF</sup> is applied directly on the fresh, wet primer with FLOORCRETE PU-SC<sup>FF</sup> (or FLOORCRETE PU-MF<sup>FF</sup>, use 8kg instead of 14kg of Filler C Component) (wet-in-wet). If recoating interval is exceeding 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 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 C by running mixer (use double stirrer). Mix until the mixture is homogenous (min. 2-3 minutes) to avoid mixing errors.

To ensure 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 skirting 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 skirting are sealed after 12 - 24 hours with FLOORCRETE PU-TC<sup>FF</sup> 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, FLOORFINDER SO-X14 tool cleaner is used.

### (C) Technical data

#### Liquid mixture (A+B)

1. Mixing ratio A : B Mixing ratio A : B : C	1: 1 by weight (kg) 0.9 : 0.9 : 13.8 (kg)
2. Permitted rel. air humidity*	Min 40% -max 90%
3. Working time (25°C)	Approx. 10-15 minutes
4. Application temperature	10 – 30°C (min. 3°C above dew point)
5. Material consumption	2.24 kg/m <sup>2</sup> per mm
6. Overcoating (25°C)	within 12 – 24 hours
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 humidity's (<40% relative humidity), the curing times and thus the times for recoating and walkability are delayed.

### Overcoating

Over coating should be carried out within 24 hours after application of FLOORCRETE PU-VC<sup>FF</sup>. If longer than 24 hours, it is necessary to lightly grind the surface before over-coating is carried out or by using a suitable adhesion promoter. For bright colours a 2nd seal will be perhaps required.

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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 Floorfinder data sheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue (see [www.floorfinder.com.my](http://www.floorfinder.com.my)).

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