

## FLOORCRETE PU-SM<sup>FF</sup> Technical Data Sheet

Product 02554000 3-comp. PU scratch primer and levelling layer, 2 mm, solvent-free

### 1 General Data

#### Fields of application

FLOORCRETE PU-SM<sup>FF</sup> is used as scratch primer and/or levelling layer and is applied to prepared concrete substrates prior to coating with FLOORCRETE systems or coat on existing FLOORCRETE systems. It seals and smooths the prepared concrete, thus preventing displaced air from the concrete causing defects in the surface of the floor. It is the primer of choice used with FLOORCRETE systems.

#### Product description

FLOORCRETE PU-SM<sup>FF</sup> is a 3-component, self-smoothing and seamless polyurethane concrete flooring system. It has excellent mechanical and chemical resistance properties. It is used as primer and levelling coat below FLOORCRETE systems. Exposed to UV and weathering FLOORCRETE PU products are not color stable.

#### Characteristics

- Good chemical resistance
- High impact and abrasion resistance
- High thermal shock resistance
- Anti-Bacterial
- Complies to HACCP requirements
- Wide service temperature depending on system
- Low emission
- Odorless, non-tainting to food
- Solvent free
- Pore filling

#### FLOORCRETE systems

FLOORCRETE PU-SM<sup>FF</sup> is the coating for the FLOORCRETE system:

- FLOORCRETE **MF standard**<sup>FF</sup>
- FLOORCRETE **MF standard SR**<sup>FF</sup>
- FLOORCRETE **MF conductive**<sup>FF</sup>
- FLOORCRETE **UD heavy duty**<sup>FF</sup>
- FLOORCRETE **HF high-temp**<sup>FF</sup>

(A) Technical data	
<b>Liquid mixture (A+B)</b>	
1. Solids content	99 %
2. Density (25°C)	1.77 g/cm <sup>3</sup>
3. Viscosity (25°C)	A+B: 500-1000 mPas
4. Packaging size (4-component)	16 kg (3 kg A + 3 kg B + 10 kg C)
5. Colour	Colorless and nature
6. Shelf life	Part A, B - 9 months in closed original container Part C - 6 months in closed original bag
7. Storage	Dry at 10–30°C, avoid direct sunlight

(B) Technical data	
<b>Cured material</b>	
1. Flexural strength (DIN EN ISO 196/ASTM C109)	>18 N/mm <sup>2</sup>
2. Compressive strength (DIN EN ISO 196/ASTM C109)	>38 N/mm <sup>2</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

### Substrate preparation

Concrete substrate shall be firm, clean and dry with a surface pull of strength of minimum 1.5 N/mm<sup>2</sup>. The substrate quality should be a monolithic reinforced concrete with min. C25/30 according to EN 206-1, (except lightweight concrete), or cement screeds in the composite, minimum CT-C30-F4, minimum layer thickness 25 mm, for other substrate see our general application guidelines for FLOORCRETE PU concrete systems.

Repair imperfections (holes and cracks) with FLOORFINDER EP-T703<sup>FF</sup> 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 keying.

We recommend a surface roughness of min. 0.4 mm. Cut grooves of 3 mm width and 5 mm depth minimum just inside the perimeter of the area and around drains, columns and protrusions where FLOORCRETE PU-SM<sup>FF</sup> will be applied.

FLOORCRETE can be laid on 7-day old concrete (w/c ratio max. 0.48) (this to a residual moisture content of approx. 6-8% (CM)) or on 2 - 3 days old polymer-modified cement screed. For permanent rising water, please contact our technical service. Detailed information you can find in the FLOORCRETE application guidelines.

### Primer

Apply the primer or scratch coat FLOORCRETE PU-SM<sup>FF</sup> with a squeegee or metal trowel and finish by roller to the prepared surface. The consumption is approx. 0.8 – 1.2 kg/m<sup>2</sup> depending on the surface roughness. If the re-coating interval must be exceed sprinkle VIASOL QS 0.3-0.8 mm quartz sand lightly (approx. 600 g/m<sup>2</sup>) while the primer is still wet. For FLOORCRETE PU-HF/ PU-UD we recommend a broadcasting with QS 0.6-1.2 mm to make application easier.

### Levelling or scratch coat

Levelling or scratch coat FLOORCRETE PU-SM<sup>FF</sup> can be uses as levelling layer up to 2 mm by using notched trowel or squeegee. Consumption rate is 1.77 kg/m<sup>2</sup> per mm.

### Application

Before starting the application, the material temperature must be close to the site conditions but should have min. 10°C. Component A and Component B mix (1 minutes) until homogeneous using an electric stirrer with a speed of min. 300 rpm.

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### (C) Technical data

#### Liquid mixture (A+B)

1.	Mixing ratio A : B Mixing ratio A : B : C	1: 1 by weight (kg) 3 : 3 : 10 (kg)
2.	Working time (25°C)	Approx.15 - 20 minutes
3.	Application temperature	10 – 30°C (min. 3°C above dew point)
4.	Material consumption (PU mortar)	1.77 kg/m <sup>2</sup> per mm 3.54 kg/m <sup>2</sup> for 2 mm
5.	Overcoating (25°C)	within 12 – 24 hours
6.	Cure time to withstand: Foot traffic Heavy traffic Exposure to chemical	after 12 – 20 hours after 2 days after 7 days

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 (1-2 minutes).

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

Pour the wet mix on the prepared floor. Spread over the floor area with a flat trowel, a rake or a hard squeegee at the nominated consumption rates for scratch primer (0.8 – 1.2 kg/m<sup>2</sup>) or for levelling (1.77 kg/m<sup>2</sup> per mm) max. 2mm is recommended. Ensure to maintain continuity of wet material between pours. While wet, roll the surface with short pile roller or for levelling layers, a spiked roller to remove entrapped air, this is recommended for thicker layer thickness e.g., levelling layers.

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

For cleaning of tools and other contaminations FLOORFINDER SO-X10 tool cleaner is used.

### Overcoating

Overcoating should be carried out within 24 hours after application of FLOORCRETE PU-SM<sup>FF</sup>. 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 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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