

## PRODUCT DATA SHEET

# Sika® Ucrete® MF

(formerly Ucrete® MF)

Smooth, heavy-duty, polyurethane floor screed

## DESCRIPTION

Sika® Ucrete® MF is a smooth, polyurethane, heavy-duty floor screed. It has very good resistance to aggressive chemicals, heavy abrasion and thermal shock.

## USES

Sika® Ucrete® MF is used within dry process areas including the following application areas:

- Chemical and processing facilities
- Clean rooms
- Dry packing lines
- Storage areas
- Warehouses

Please note:

- The Product may only be used by experienced professionals.

## FEATURES

- Resistant to bacterial or mould growth
- Suitable for application on to 7-day-old concrete and 3-day-old polymer screed
- Very good resistance to a wide range of chemicals
- Very good mechanical resistance
- Impermeable to liquids
- Non-tainting from the end of mixing
- Low VOC emissions
- Thermal expansion properties similar to concrete

## CERTIFICATES AND TEST REPORTS

- Food and Beverage Facilities Suitability, Sika® Ucrete®, HACCP, Test Report No. I-PE-769-SA-2-RG-06b
- Halal Certification Europe (HCE), Sika® Ucrete®, WHFC, Certificate No. 21453-2/1/1/Y1
- Indoor Air Comfort Gold EN 16516, Sika® Ucrete®, eurofins, Certificate No. IACG-321-01-01-2023

## PRODUCT INFORMATION

<b>Composition</b>	Water-based polyurethane cement hybrid
<b>Packaging</b>	Refer to the current price list for available packaging variations.
<b>Shelf life</b>	Always refer to the best-before date of the individual packaging.
<b>Storage conditions</b>	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.

Colour	Cured colour	Red, Orange, Yellow, Cream, Grey, Light Grey, Green, Green-Brown, Blue.
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Density	Mixed Product	~1.90 kg/l	(EN ISO 2811-1)
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## TECHNICAL INFORMATION

Compressive strength	Cured 28 days at +23 °C	48 - 53 N/mm <sup>2</sup>	(EN 13892-2)
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Modulus of elasticity in compression	3250 - 4000 MPa		(BS 6319-6)
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Flexural-strength	Cured 28 days at +23 °C	18 - 21 N/mm <sup>2</sup>	(EN 13892-2)
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Tensile strength	Cured for 28 days at +20 °C	~9 MPa	(BS 6319-7)
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Tensile adhesion strength	Concrete failure		(EN 1542)
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Coefficient of thermal expansion	3.6 × 10 <sup>-5</sup> °C <sup>-1</sup>		(ASTM C531)
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Skid / slip resistance	PTV, slider 96	35 wet conditions	(EN 13036-4)
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Class	R 10	(DIN 51130)
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Service temperature	Maximum	+70 °C
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Minimum	-15 °C
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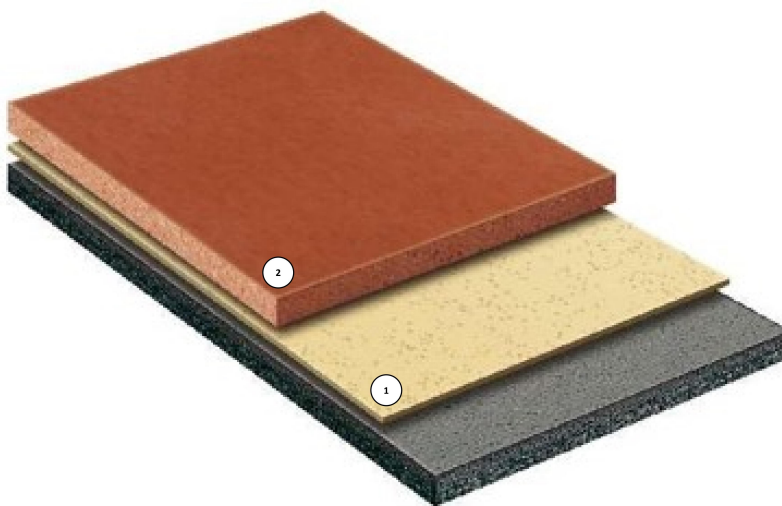
(For 6 mm thickness)

**Chemical resistance** Laboratory-defined resistance to many individual chemicals. Before proceeding, contact Sika Technical Service for specific information.

Reaction to fire	Class B <sub>fl</sub> -s1	(EN 13501-1)
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## SYSTEM INFORMATION

### System structure



Layer	Product
1. Option 1: Primer slurry	Sika® Ucrete® PFS
Option 2: Scratch coat	Sika® Ucrete® MF
2. Wearing layer	Sika® Ucrete® MF

Dry film thickness	~4 - 6 mm
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## APPLICATION INFORMATION

Consumption	Layer	Product	Consumption
	Option 1: Primer slurry	Sika® Ucrete® PFS	~1.6 kg/m <sup>2</sup> (~1 mm)
	Option 2: Scratch coat	Sika® Ucrete® MF	~2.0 kg/m <sup>2</sup> (~1 mm)
	Wearing layer	Sika® Ucrete® MF	6 – 8 kg/m <sup>2</sup> for 3 mm 10 – 12 kg/m <sup>2</sup> for 5 mm

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

Layer thickness	~4–6 mm	
Material temperature	Maximum	+25 °C
	Minimum	+18 °C
Ambient air temperature	Maximum	+25 °C
	Minimum	+12 °C
Substrate temperature	Maximum	+25 °C
	Minimum	+12 °C
Curing time	<b>Substrate temperature</b>	<b>Return to traffic</b>
	+8 °C	< 24 hours
	+15 °C	4 hours (with Sika® Ucrete® Accelerator)

Note: Times are approximate and will be affected by changing ambient and substrate conditions.

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## FURTHER DOCUMENTATION

- **Method Statement:** Sika® Ucrete® MF
- **Substrate Quality & Preparation:** Please refer to Sika General Method Statement: "EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS"

## IMPORTANT CONSIDERATIONS

- Do not apply to PCC (polymer modified cement mortars) that may expand due to moisture when sealed with an impervious resin.
- Always ensure good ventilation when using Sika® Ucrete® MF in a confined space, to prevent excessive ambient humidity.
- Freshly applied Sika® Ucrete® MF must be protected from damp, condensation and direct water contact for at least 24 hours.

- Protect the substrate during application from condensation from pipes or any overhead leaks.
- Do not apply to cracked or unsound substrates.
- Products of the Sika® Ucrete® product range are subject to discolouration when exposed to UV radiation. Extent depends on colour. There are no measurable losses of any properties when this occurs and it is a purely aesthetical matter.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

# APPLICATION INSTRUCTIONS

## SUBSTRATE PREPARATION

### IMPORTANT

#### Reduced service life due to incorrect treatment of cracks

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

#### TREATMENT OF JOINTS AND CRACKS

Construction joints and existing static surface cracks in substrate require pre-treating before full layer application. Use Sikadur® or Sikafloor® resins.

The System can be applied on green or damp concrete with no standing water. Allow for at least 3 days for early concrete shrinkage to occur to prevent shrinkage cracks from appearing on the wearing surface.

Cementitious substrates must be structurally sound and of sufficient compressive strength (minimum 30 N/mm<sup>2</sup>) with a minimum tensile adhesion strength of 1.5 N/mm<sup>2</sup>.

Substrates must be clean, dry and free of contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

## APPLICATION

Application must be undertaken by a fully trained and licensed Sika® Ucrete® applicator. Refer to Method Statement for further details.

## CLEANING OF EQUIPMENT

Clean all tools and application equipment with e.g. Thinner C or other suitable thinner, immediately after use. Hardened / cured material can only be mechanically removed.

# LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

### Sika Gulf B.S.C. (c)

Tel: +973 177 38188

Email: info@bh.sika.com

Sika Kuwait Cons. Mat. & Paints Co WLL

Tel: +965 22 282 296

Email: sika.kuwait@kw.sika.com

Web: gcc.sika.com

### Sika UAE LLC

Sika MB Construction Chemicals LLC

Sika International Chemicals LLC

Tel: +971 4 439 8200

Email: info@ae.sika.com

Web: gcc.sika.com

### Sika Saudi Arabia Limited

Sika Construction Chemicals for

Manufacturing LLC

Riyadh / Jeddah / Dammam / Rabigh

Tel: +966 12 692 7079

Email: info@sa.sika.com

Web: gcc.sika.com

### Sika LLC - Oman

Master Builders Solutions LLC

(part of Sika)

Tel. +968 22 826 500

Email: info@om.sika.com

Web: gcc.sika.com



ISO 9001, 14001, 45001 – SGS  
- Sika UAE LLC  
- Sika International Chemicals LLC  
- Sika Gulf B.S.C. (c)  
- Sika MB Construction Chemicals for Manufacturing LLC  
- Sika MB Construction Chemicals for Manufacturing LLC  
- Master Builders Solutions LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



### Product Data Sheet

Sika® Ucrete® MF

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