BUILDING TRUST

PRODUCT DATA SHEET

Sika® 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 as a wearing layer screed for Sika® Ucrete® flooring systems.
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.

CHARACTERISTICS / ADVANTAGES

- Expert installation by fully trained and licensed applicators
- 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

APPROVALS / STANDARDS

- 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

Chemical Base	Water-based polyurethane cement hybrid	
Packaging	Refer to the current price list for available packaging variations.	
Colour	Cured colour	Red, Orange, Yellow, Bright Yellow, Cream, Grey, Light Grey, Green, Light Green, Green/ Brown, Blue.
Shelf Life	Always refer to the best-before date of the individual packaging.	
Storage Conditions	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.	

Density	Mixed Product	~1.97 kg/l	(EN ISO 2811-1)

TECHNICAL INFORMATION

Compressive Strength	Cured 28 days at +23 °C	50 N/mm²	(EN 13892-2)
Modulus of Elasticity in Compression	4000 MPa		(BS 6319-6)
Tensile Strength in Flexure	Cured 28 days at +23 °C	20 N/mm²	(EN 13892-2)
Tensile Strength	Cured for 28 days at +20 °C	9 MPa	(BS 6319-7)
Tensile Adhesion Strength	> 2.0 N/mm² (concrete failure)		(EN 1542)
Coefficient of Thermal Expansion	3.6×10^{-5} °C^{-1}		(ASTM C531)
Reaction to Fire	Class B_{fl}-s1		(EN 13501-1)
Chemical Resistance	Laboratory-defined resistance to many individual chemicals. Before proceeding, contact Sika Technical Service for specific information.		
Skid / Slip Resistance	PTV, slider 96	35 wet conditions	(EN 13036-4)
	Class	R 10	(DIN 51130)

Service Temperature	Maximum	+70 °C
	Minimum	-15 °C

APPLICATION INFORMATION

Consumption

Layer	Product	Consumption
Primer	Sika® Ucrete® PLC	2–3 kg/m²
Wearing layer	Sika® Ucrete® MF	8–10 kg/m² for 4 mm 12–14 kg/m² for 6 mm

Layer Thickness	~4–6 mm	
Product Temperature	Maximum	+25 °C
	Minimum	+18 °C
Ambient Air Temperature	Maximum	+35 °C
	Minimum	+12 °C
Substrate Temperature	Maximum	+30 °C
	Minimum	+12 °C

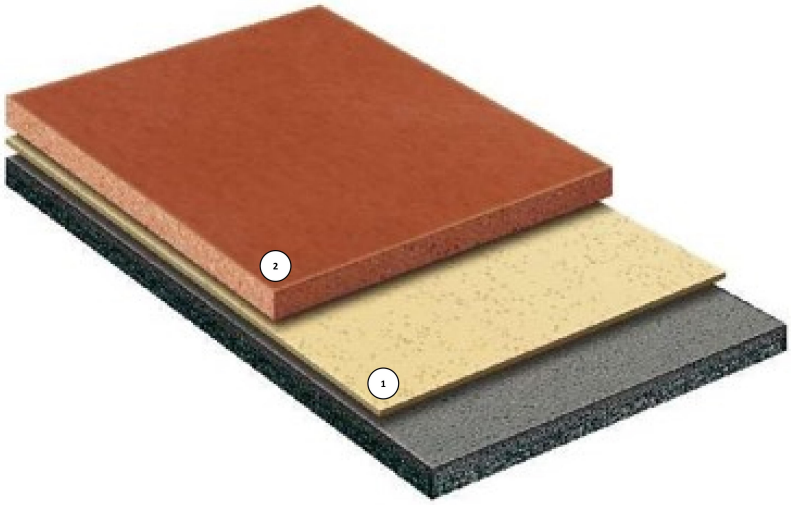
Curing Time

Substrate temperature	Return to traffic
+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.

SYSTEM INFORMATION

System Structure



	Layer	Product
1.	Primer	Sika® Ucrete® PLC
2.	Wearing layer	Sika® Ucrete® MF

BASIS OF PRODUCT DATA

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

ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing 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.

1. For static cracks, ensure the width is suitable for overcoating with Sika® Ucrete® MF.
2. For dynamic cracks, ensure the movement is within the movement capacity of Sika® Ucrete® MF.

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^2) with a minimum tensile strength of 1.5 N/mm^2.

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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