

SYSTEM DATA SHEET

Sika® Ucrete® MFAS-C

Antistatic, smooth, heavy-duty polyurethane floor system

DESCRIPTION

Sika® Ucrete® MFAS-C is a heavy-duty resin floor system that provides a smooth, protective, antistatic floor finish, suitable for applications in predominantly dry ESD and ECF environments.

USES

Sika® Ucrete® MFAS-C may only be used by experienced professionals.

Sika® Ucrete® MFAS-C is used in the electronics industry to protect sensitive electronic devices and in explosion hazarded areas.

Sika® Ucrete® MFAS-C is used within dry process areas including the following application areas:

- Food and beverage facilities
- Pharmaceutical facilities
- Chemical and processing facilities
- Clean rooms
- Electronic facilities and data centres
- Defence estates

CHARACTERISTICS / ADVANTAGES

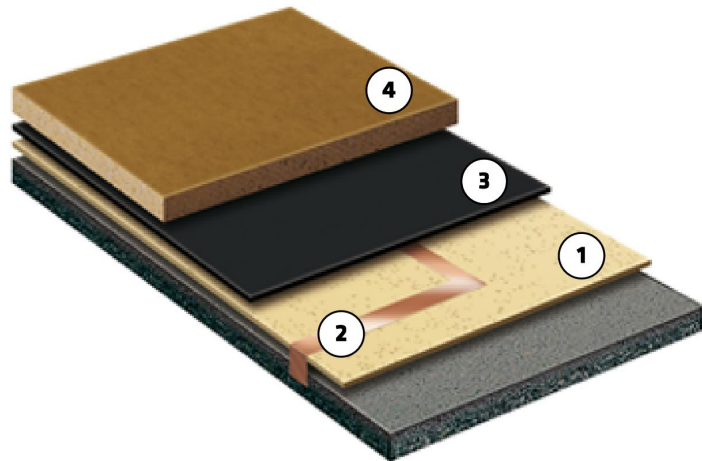
- Expert installation by fully trained and licensed applicators
- Resistant to bacterial or mould growth
- Suitable for application on to 7-day-old concrete and 3-day-old polymer screed
- Electrostatically conductive
- Very good resistance to specific chemicals
- Very good mechanical resistance
- Impermeable to liquids
- Non-tinting after curing
- Odourless
- Thermal expansion properties similar to concrete
- Tolerant to substrates with high moisture content

APPROVALS / STANDARDS

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

SYSTEM INFORMATION

System Structure



Layer	Product
1. Primer	Sika® Ucrete® PFS
2. Earthing connection	Copper tape
3. Conductive primer	Sika® Ucrete® PLCAS
4. Wearing layer	Sika® Ucrete® MF 40 AS

Composition	Water-based polyurethane cement hybrid
Colour	Red, Orange, Yellow, Bright Yellow, Cream, Grey, Light Grey, Green, Light Green, Green/ Brown, Blue.

TECHNICAL INFORMATION

Compressive Strength	Cured 28 days at +23 °C	53 N/mm ²	(EN 13892-2)
Modulus of Elasticity in Compression	4000 MPa		(BS 6319-6)
Tensile Strength in Flexure	Cured 28 days at +23 °C	21 N/mm ²	(EN 13892-2)
Tensile Adhesion Strength	> 2.0 N/mm ² (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)
Skid / Slip Resistance	PTV, slider 96	35 wet conditions	(EN 13036-4)
	Class	R 10	(DIN 51130)
Electrostatic Behaviour	Resistance to ground	R _G < 5 × 10 ⁴ Ω	(EN 1081)
	Body voltage generation	< 50 V	(IEC 61340-4-5)
	Resistance of person to earth	< 35 MΩ	(IEC 61340-4-5)

Note: Measurement results can be affected by ESD clothing, ambient conditions, measurement equipment, cleanliness of the floor and the test personnel.

APPLICATION INFORMATION

Consumption	Layer	Product	Consumption
	Primer	Sika® Ucrete® PFS	0.6–1.0 kg/m ²
	Earthing connection	Copper tape	Maximum distance 10 m between strips
	Conductive primer	Sika® Ucrete® PLCAS	2–3 kg/m ²
	Wearing layer	Sika® Ucrete® MF 40 AS	8–10 kg/m ² for 4 mm 12–14 kg/m ² for 6 mm
<p>Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply the Product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.</p>			
Ambient Air Temperature	Maximum	+30 °C	
	Minimum	+15 °C	
Dew Point	Refer to the individual Product Data Sheet.		
Substrate Temperature	Maximum	+30 °C	
	Minimum	+15 °C	
Substrate Moisture Content	<p>Refer to the individual Product Data Sheet.</p> <p>Note: Epoxy primers are not suitable for application onto a high substrate moisture content.</p>		
Applied Product Ready for Use	<p>The floor can be returned to service after 24 hours.</p> <p>Note: Times are approximate and will be affected by changing ambient and substrate conditions.</p>		

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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

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.

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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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