

## PRODUCT DATA SHEET

# Sika® Ucrete® UD 100 AS

(formerly Ucrete® UD 100 AS)

Hygienic, antistatic, slip-resistant, heavy-duty polyurethane floor screed

### PRODUCT DESCRIPTION

Sika® Ucrete® UD 100 AS is a textured, antistatic, heavy-duty, resin floor with very good resistance to aggressive chemicals, impact and temperatures up to +150 °C. It is suitable for slip resistant applications in ESD and ECF environments.

### USES

Sika® Ucrete® UD 100 AS is used as a levelling layer screed for Sika® Ucrete® flooring systems. Sika® Ucrete® UD 100 AS is used within wet and dry process areas, including the following application areas:

- Food and beverage facilities
- Pharmaceutical facilities
- Chemical and processing facilities
- Manufacturing facilities and workshops
- Defence estates
- Electronic facilities and data centres

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

- Electrostatically conductive
- 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
- Tolerant to substrates with high moisture content

### ENVIRONMENTAL INFORMATION

- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)
- Specific Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by EPD International AB

### APPROVALS / STANDARDS

- Halal Certification Europe (HCE), Sika® Ucrete®, WHFC, Certificate No. 21453-2/1/1/Y3
- Food and Beverage Facilities Suitability, Sika® Ucrete®, HACCP, Test Report No. I-PE-769-SA-2-RG-07
- Indoor Air Comfort Gold EN 16516, Sika® Ucrete®, eurofins, Certificate No. IACG-321-01-01-2024D
- Reaction to fire EN 13501-1, Sika® Ucrete® Trowel Systems, GHENT, Test Report No. CR 24-0478-01
- CE marking and declaration of performance based on EN 13813:2002 Screed material and floor screeds — Screed material — Properties and requirements — Synthetic resin screed material

### PRODUCT INFORMATION

#### Chemical Base

Water-based polyurethane cement hybrid

#### Packaging

31.08 kg

Refer to the current price list for available packaging variations.

<b>Colour</b>	Cured colour	Red, Carmine red, Orange, Yellow, Bright Yellow, Cream, Grey, Light Grey, Green, Light Green, Green/Brown, Light blue, Blue N.
	Note: Exposure to ultraviolet light may result in discolouration and colour variation. This is an aesthetic change and has no influence on the function and performance.	
<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.	
<b>Density</b>	Mixed Product	2.04 kg/l (EN ISO 2811-1)

## TECHNICAL INFORMATION

<b>Compressive Strength</b>	Cured 28 days at +23 °C	55 N/mm <sup>2</sup>	(EN 13892-2)
<b>Modulus of Elasticity in Compression</b>	3250 MPa		(BS 6319-6)
<b>Flexural Strength</b>	Cured 28 days at +23 °C	14 N/mm <sup>2</sup>	(EN 13892-2)
<b>Tensile Strength</b>	Cured for 28 days at +20 °C	7 MPa	(BS 6319-7)
<b>Tensile adhesion strength</b>	> 2.0 N/mm <sup>2</sup> (concrete failure)		(EN 1542)
<b>Coefficient of Thermal Expansion</b>	3.6 × 10 <sup>-5</sup> °C <sup>-1</sup>		(ASTM C531)
<b>Reaction to Fire</b>	Class B <sub>fl</sub> -s1		(EN 13501-1)
<b>Chemical Resistance</b>	Laboratory-defined resistance to many individual chemicals. Before proceeding, contact Sika Technical Service for specific information.		
<b>Skid / Slip Resistance</b>	PTV, slider 96 Class	40–45 wet conditions R 11	(EN 16165)
<b>Electrostatic Behaviour</b>	Resistance to ground	R <sub>G</sub> < 1 × 10 <sup>6</sup> Ω	(EN 1081)
	Resistance to ground	R <sub>G</sub> < 1 × 10 <sup>6</sup> Ω	(IEC 61340-4-1)
	Body voltage generation	< 100 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.		
<b>Water permeability</b>	Tested for 72 hours at 5 bar	Impermeable to water	(DIN 1048-5)

## APPLICATION INFORMATION

Consumption	Layer	Product	Consumption
	Primer	Sika® Ucrete® PSC	0.2–0.4 kg/m <sup>2</sup>
	Earthing connection	Copper tape	Maximum distance 10 m between strips
	Wearing layer	Sika® Ucrete® UD 100 AS	19–22 kg/m <sup>2</sup> for 9 mm 24–26 kg/m <sup>2</sup> for 12 mm

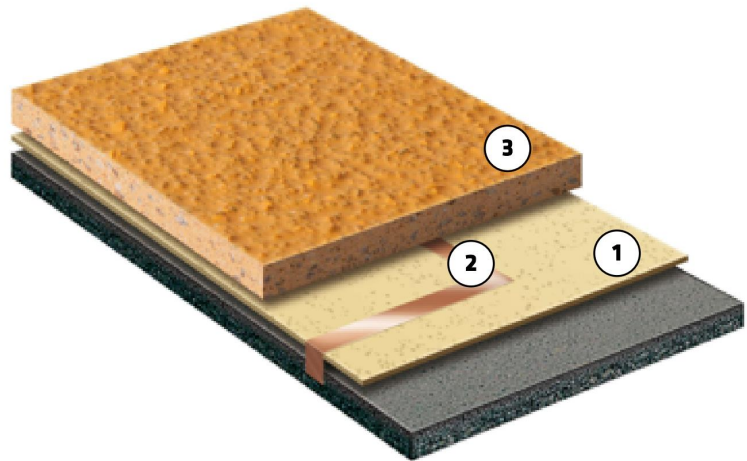
Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply the Product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

<b>Product Temperature</b>	Maximum	+30 °C
	Minimum	+15 °C
<b>Ambient Air Temperature</b>	Maximum	+30 °C
	Minimum	+12 °C
<b>Substrate Temperature</b>	Maximum	+30 °C
	Minimum	+12 °C
<b>Curing Time</b>	<b>Substrate temperature</b>	<b>Return to traffic</b>
	+8 °C	16–24 hours
	+10 °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® PSC
2. Earthing connection	Copper tape
3. Wearing layer	Sika® Ucrete® UD 100 AS

## VALUE BASE

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 DOCUMENTS

Select from the following specification clauses as required:

- A 9 mm Sika® Ucrete® UD 100 AS floor is fully resistant to high temperature spillage and discharge up to +120 °C and is fully steam-cleanable. Suitable for freezer temperatures down to -40 °C.

- A 12 mm Sika® Ucrete® UD 100 AS floor is fully resistant to high temperature spillage and discharge up to +130 °C and occasional spillage up to +150 °C and is fully steam-cleanable. Suitable for freezer temperatures down to -40 °C

## ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling.

Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

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## 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® UD 100 AS.
2. For dynamic cracks, ensure the movement is within the movement capacity of Sika® Ucrete® UD 100 AS.

#### 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 Product 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 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.

## 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 the 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 IRELAND LIMITED

Ballymun Industrial Estate  
Ballymun  
Dublin 11, Ireland  
Tel: +353 1 862 0709  
Web: [www.sika.ie](http://www.sika.ie)  
Twitter: @Sikalreland



#### Product Data Sheet

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