BUILDING TRUST

PRODUCT DATA SHEET

Sika® Ucrete® IF

(formerly Ucrete® IF)

IRON-ARMOURED, HEAVY-DUTY, POLYURETHANE RESIN FLOOR FINISH

DESCRIPTION

Sika® Ucrete® IF is a very heavy-duty resin floor which provides an extremely tough surface. It uses specially treated iron aggregates to provide protection against severe abrasion and mechanical exposure.

USES

Sika® Ucrete® IF is used as a wearing layer screed for Sika® Ucrete® flooring systems.
Sika® Ucrete® IF is used within wet and dry process areas including the following application areas:

- Waste transfer stations
- Heavy engineering workshops
- Heavy process areas
- Storage bunkers
- Loading docks
- In front of industrial ovens
- Heavy equipment maintenance facilities

Please note:

- The Product may only be used by experienced professionals.

CHARACTERISTICS / ADVANTAGES

- Expert installation by fully trained and licensed applicators
- Suitable for application on to 7-day-old concrete and 3-day-old polymer screed
- Fully serviceable within 24 hours
- Very good mechanical resistance
- Very good impact resistance
- Very good abrasion resistance
- Fast installation
- Non-tainting from the end of mixing
- Good slip resistance
- Low maintenance
- Low VOC emissions

APPROVALS / STANDARDS

- 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

TECHNICAL INFORMATION

Compressive Strength	Cured 28 days at +23 °C	60 N/mm²	(EN 13892-2)
Modulus of Elasticity in Compression	3350 MPa		(EN 12447)
Tensile Strength in Flexure	Cured 28 days at +23 °C	17 N/mm²	(EN 13892-2)
Tensile Strength	Cured for 28 days at +20 °C	8 MPa	(BS 6319-7)
Tensile Adhesion Strength	> 2.0 N/mm² (concrete failure)		(EN 1542)
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	40–45 wet conditions	(EN 13036-4)
	Class	R 11	(DIN 51130)

Service Temperature

Thickness	Minimum	Maximum	Occasional spillage
9 mm	-40 °C	+120 °C	-
12 mm	-40 °C	+130 °C	+150 °C

Water permeability

Sika® Ucrete® IF exhibits zero absorption when tested to CP.BM2/67/2.

PRODUCT INFORMATION

Chemical Base

Water-based polyurethane cement hybrid

Packaging

Refer to the current price list for available packaging variations.

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.

Colour	Cured colour	Red, Yellow, Green, Orange, Grey, Blue, Green/Brown.
Density	Mixed Product	~2.80 kg/l (EN ISO 2811-1)

SYSTEM INFORMATION

System Structure

Sika® Ucrete® IF

Layer	Product
Primer	Sika® Ucrete® PSC
Wearing layer	Sika® Ucrete® IF

APPLICATION INFORMATION

Consumption

Layer	Product	Consumption
Primer	Sika® Ucrete® PSC	0.2–0.4 kg/m²
Wearing layer	Sika® Ucrete® IF	28–30 kg/m² for 9 mm 37–39 kg/m² 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.

Layer Thickness

~9–12 mm

Product Temperature

Maximum	+30 °C
Minimum	+10 °C

Ambient Air Temperature

Maximum	+35 °C
Minimum	+5 °C

Substrate Temperature

Maximum	+30 °C
Minimum	+5 °C

Curing Time

Substrate temperature	Return to traffic
+8 °C	< 24 hours
+10 °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 Product 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® IF 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 and in front of rack ovens where wheel temperatures are up to +190 °C on removal.
- A 12 mm Sika® Ucrete® IF 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 and in front of rack ovens where wheel temperatures are up to +190 °C on removal.

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® IF.
2. For dynamic cracks, ensure the movement is within the movement capacity of Sika® Ucrete® IF.

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.

Sika (Singapore) Pte Ltd.
28 Tuas South Ave 8
Singapore 637648
Phone: +65 6861 0632
Fax: +65 6862 3915
Email: sales@sg.sika.com
www.sika.com.sg