BUILDING TRUST

PRODUCT DATA SHEET

Sika® Ucrete® FL

(formerly Ucrete® FL)

Heavy-duty, polyurethane underlayment for Sika® Ucrete® flooring systems

PRODUCT DESCRIPTION

Sika® Ucrete® FL is an underlayment screed for use prior to the application of a Sika® Ucrete® flooring system. It is used to create falls or for the fast repair of damaged floor slabs. It is applied by trowel or screed bar at a thickness of 12 mm to 100 mm.

USES

Sika® Ucrete® FL is used as a levelling layer screed for Sika® Ucrete® flooring systems.
Sika® Ucrete® FL 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

Please note:

- The Product may only be used by experienced professionals.
- The Product is not a finished floor and must be overlaid with the appropriate Sika® Ucrete® floor finish

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
- Non-tainting from the end of mixing
- Good adhesion to the substrate
- Good levelling properties
- Low VOC emissions
- Application of subsequent Sika® Ucrete® products after approximately 16 hours
- Can be filled with aggrgate to improve economy
- Can be accelerated with Sika® Ucrete® Accelerator for fast installation within a 12-hour window

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

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, Orange, Yellow, Bright Yellow, Cream, Grey, Light Grey, Green, Light Green, Green/ Brown, Blue.	
Density	Mixed Product	~2.31 kg/l	(EN ISO 2811-1)

TECHNICAL INFORMATION

Compressive Strength	Cured 28 days at +23 °C	55 N/mm²	(EN 13892-2)
Flexural Strength	Cured 28 days at +23 °C	11 N/mm²	(EN 13892-2)
Tensile Strength	Cured for 28 days at +20 °C	5 MPa	(BS 6319-7)
Tensile adhesion strength	> 2.0 N/mm² (concrete failure)		(EN 1542)
Chemical Resistance	Laboratory-defined resistance to many individual chemicals. Before proceeding, contact Sika Technical Service for specific information.		
Reaction to Fire	Class B_{fl}-s1		(EN 13501-1)

APPLICATION INFORMATION

Consumption	2.3 kg/m² per mm of thickness	
	Unit	21 litres
	Unit bulked out with aggregate	28 litres
	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	~12–100 mm	
Product Temperature	Maximum	+22 °C
	Minimum	+15 °C
Ambient Air Temperature	Maximum	+30 °C
	Minimum	+5 °C
Substrate Temperature	Maximum	+30 °C
	Minimum	+5 °C
Waiting Time / Overcoating	Minimum	16 hours
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.	

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.

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.

Regulation (EC) No 1907/2006 (REACH) - Mandatory training
As from 24 August 2023 adequate training is required before industrial or professional use of this product.
For more information and a link to the training visit https://irl.sika.com/en/knowledge-hub-sika-ireland/pu-training.html.

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

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/mm²) with a minimum tensile strength of 1.5 N/mm².
Substrates must be clean, dry and free of contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.
MECHANICAL SUBSTRATE PREPARATION
IMPORTANT
Surface defects due to voids in the substrate
Voids and blow holes in the substrate will weaken the surface and damage the covering Product if not repaired during the preparation process.
1. Fully expose blow holes and voids during surface preparation to identify the required repairs.
1. Remove weak cementitious substrates.
2. Prepare cementitious substrates mechanically using abrasive blast cleaning, abrasive planing or scarifying equipment to remove cement laitance.
3. Cut retaining grooves in the substrate along all exposed edges (perimeter, joints, connections, plinths, columns, covings and drains or gullies).
4. Before applying the Product, remove all dust, loose and friable material from the application surface with an industrial vacuuming equipment.

For additional information on products for leveling and repairing defects, contact Sika® Technical Services.
SUBSTRATE PREPARATION OF NON-CEMENTITIOUS SUBSTRATES
For information on substrate preparation of non-cementitious substrates, contact Sika® Technical Services.

APPLICATION

IMPORTANT
Protecting the material after application
After application, protect the System from damp, condensation and direct water contact for at least 24 hours.
IMPORTANT
Protect from overhead leaks and condensation
Protect the Product during application from pipe condensation or any overhead leaks.
IMPORTANT
Ventilation in confined spaces
Always ensure good ventilation when applying the Product in a confined space.
IMPORTANT
Application on polymer modified cement mortars
Do not apply the product on polymer modified cement mortars if the mortar expands when sealed with an impervious resin.
IMPORTANT
Waiting time for foodstuff
Allow a minimum of 48 hours after application before placing foodstuff in the same area.
Excessive waiting period or early exposure to moisture causing reduced adhesion between coats
Note: If the time between coats exceeds 48 hours, or if condensation or water impacts the surface during this time the adhesion of the subsequent layer may be reduced.
1. Fully abrade the surface prior to the application of the subsequent overlay.

RESIN SCREED
1. Pour the mixed Product onto the prepared substrate.
2. Spread and compact the Product with a trowel to the required thickness between screed rails or battens, if installed.
3. Level the screed surface with a levelling beam spanning onto the screed rails or battens.
4. Finish the surface to the required surface texture with trowels or walk-behind power float.

CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Thinner C immediately after use. Hardened material can only be removed mechanically.

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.

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