

PRODUCT DATA SHEET

Sika® Ucrete® IF

(formerly Ucrete® IF)

Iron-filled, heavy-duty, polyurethane resin floor finish

PRODUCT 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.

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 41°F and 86°F. Always refer to the packaging. Refer to the current Safety Data Sheet for information on safe handling and

CHARACTERISTICS / ADVANTAGES

- Expert installation by fully trained 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

storage.

Color	Cured color	Red, Yellow, Green, Orange, Grey, Blue, Green/Brown.
Density	Mixed Product	~175 lbs/ft ³

TECHNICAL INFORMATION

Compressive Strength	Cured 28 days at 73°F	8702 psi	(ASTM C579)	
Flexural Strength	Cured 28 days at 73°F	2465 psi	(ASTM C580)	
Tensile Strength	Cured for 28 days at 68°F	1160 psi	(ASTM C307)	
Tensile Adhesion Strength	> 290 psi (concrete failure)		(ASTM D4541)	
Service Temperature	Thickness	Minimum	Maximum	Occasional spillage
	3/8 inch	-40 °F	248 °F	-
	1/2 inch	-40 °F	266 °F	302 °F
Water permeability	Sika® Ucrete® IF exhibits zero absorption when tested to CP.BM2/67/2.			
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)	

SYSTEM INFORMATION

System Structure	Sika® Ucrete® IF	
	Layer	Product
	Wearing layer	Sika® Ucrete® IF

APPLICATION INFORMATION

Coverage	Layer	Product	Consumption
	Wearing layer	Sika® Ucrete® IF	14 ft ² /kit for 3/8 inch 10 ft ² /kit for 1/2 inch
<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>			
Layer Thickness	~3/8 - 1/2 inch		
Product Temperature	Maximum	86 °F	
	Minimum	50 °F	
Ambient Air Temperature	Maximum	95 °F	
	Minimum	41 °F	
Substrate Temperature	Maximum	86 °F	
	Minimum	41 °F	

Cure Time

Substrate temperature	Return to traffic
46 °F	< 24 hours
50 °F	4 hours (with Sika® Ucrete® Accelerator)

Note: Times are approximate and will be affected by changing ambient and substrate conditions.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

AVAILABILITY/WARRANTY

Select from the following specification clauses as required:

- A 3/8 inch Sika® Ucrete® IF floor is fully resistant to high temperature spillage and discharge up to 248 °F and is fully steam-cleanable. Suitable for freezer temperatures down to -40 °F and in front of rack ovens where wheel temperatures are up to 374 °F on removal.
- A 1/2 inch Sika® Ucrete® IF floor is fully resistant to high temperature spillage and discharge up to 266 °F and occasional spillage up to 302 °F and is fully steam-cleanable. Suitable for freezer temperatures down to -40 °F and in front of rack ovens where wheel temperatures are up to 374 °F on removal.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

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 3625 psi, 25 N/mm²) with a minimum tensile strength of 217 psi.

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 Sika® Ucrete® applicator.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

Sika Corporation

201 Polito Avenue
Lyndhurst, NJ 07071
Phone: +1-800-933-7452
Fax: +1-201-933-6225
usa.sika.com



Product Data Sheet

Sika® Ucrete® IF
July 2024, Version 01.01
02081400000002025

SikaUcretelF-en-US-(07-2024)-1-1.pdf

