

PRODUCT DATA SHEET

Sika® 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.

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

PRODUCT INFORMATION

Chemical Base	Water-based polyurethane cement hybrid	
Packaging	Sika® Ucrete® UD 200 Part 1:	Box containing 4 jugs each jug contains 0.74 US gal
	Sika® Ucrete® NA Part 2:	Box containing 4 jugs each jug contains 0.71 US gal
	Sika® Ucrete® IF Part 3:	Bag containing 38 lbs (17.237 kg)
	Sika® Ucrete® Part 4:	Box containing 25 pouches each pouch contains 1.1 lbs (0.5 kg)
	Combo Kit:	1 box of Sika® Ucrete® UD 200 Part 1 1 box of Sika® Ucrete® NA Part 2 8 bags of Sika® Ucrete® IF Part 3 *Sika® Ucrete® Part 4 not included
Color	Cured color	Red, Orange, Yellow, Cream, Grey, Light Grey, Green, Light Green, Green/Brown, Blue N.
	Note: Exposure to ultraviolet light may result in discoloration and color variation. This is an aesthetic change and has no influence on the function and performance.	
Shelf Life	Sika® Ucrete® UD 200 Part 1	9 months
	Sika® Ucrete® NA Part 2	12 months
	Sika® Ucrete® IF Part 3	9 months
	Sika® Ucrete® Part 4	24 months
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 storage.	

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)
Combustibility	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.		
Service Temperature	Thickness	Minimum	Maximum
			Occasional spillage
	3/8 inch	-40 °F	248 °F
	1/2 inch	-40 °F	266 °F
			302 °F

APPLICATION INFORMATION

Mixing Ratio	1 x Part 1 : 1 x Part 2 : 2 x Part 3 : 1 x Part 4 Mix full units only		
Coverage	Layer	Product	Consumption
	Wearing layer	Sika® Ucrete® IF	16 ft² at 3/8 in 11.5 ft² at 1/2 in
	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	~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.

LIMITATIONS

Prior to application, measure and confirm Substrate Moisture Content, Ambient Relative Humidity, Ambient and Surface Temperature and Dew Point. During installation, confirm and record above values at least once every 3 hours, or more frequently whenever conditions change (e.g. Ambient Temperature rise/fall, Relative Humidity increase/decrease, etc.).

- Do not apply to polymer modified cement mortars (PCC) that may expand when sealed with an impervious resin.
- Do not apply to water-soaked, glistening-wet concrete substrates. (i.e standing water).
- Do not apply to un-reinforced sand cement screeds, asphaltic or bitumen substrate, glazed tile or nonporous brick, tile and magnesite, copper, aluminum, soft wood, or urethane composition, elastomeric membranes, fiber reinforced polyester (FRP) composites.
- Do not apply to cracked or unsound substrates.
- Do not apply while ambient and substrate temperatures are rising, as pinholes may occur.
- Freshly applied material should be protected from dampness, condensation and water for at least 24

- hours. Protect substrate during application from condensation from pipes or any overhead leaks.
- Protect applied product from exposure to uncured cement products; masonry mortar, drywall compound. Exposure will result in staining that can not be removed.
 - Do not apply to surfaces where moisture vapor can condense and freeze.
 - Do not apply to vertical or overhead surfaces. For vertical surfaces refer to Sika® Ucrete® RG29 NA.
 - Do not featheredge.
 - Applied material will follow undulations, depressions, lines, etc. of the underlying substrate. Visual appearance of the finished floor may vary, including, but not limited to, reflection.
 - This product is not designed for negative side waterproofing.

Material Temperature: Precondition material for at least 24 hours between 65° to 75°F (18° to 24°C).

IMPORTANT: Product must be protected from freezing. If frozen, discard in a responsible manner in accordance with local, state and federal law.

Ambient Temperature: Minimum/Maximum 40°/85 °F (4°/30 °C)

Substrate Temperature: Minimum/Maximum 40°/85 °F (4°/30 °C). Substrate temperature must be at least 5°F (3 °C) above measured Dew Point. Mixing and Application must adhere to Material, Ambient and Substrate temperatures listed above or a decrease in product workability and slower cure rates will occur.

Relative Ambient Humidity: Minimum ambient humidity 30%

Dew Point: Beware of condensation! The substrate must be at least 5 °F (3 °C) above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure or “blushing” on the floor finish. Be aware that the substrate temperature may be lower than the ambient temperature. Calculate Dew Point from the substrate surface temperature, not the ambient temperature.

Mixing: Do not hand mix Sikafloor materials. Mechanically mix only. Do not thin this product. Addition of thinners (e.g. water, solvent, etc.) will slow cure and reduce ultimate properties of this product. Under no circumstance should thinners be added to the mix. Adding thinners will void any applicable Sika warranty.

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

SURFACE PREPARATION

Concrete surfaces must be clean and sound. Remove all dust, dirt, existing paint films, efflorescence, exudates, laitance, forms oils, hydraulic or fuel oils, brake fluid, grease, fungus, mildew, biological residues or any other contaminants which may prohibit a good bond.

Prepare the surface by any appropriate mechanical means, in order to achieve a profile equivalent to ICRI CSP 3-6. The compressive strength of the concrete substrate should be at least 3,625 psi (25 MPa) at 28 days and a minimum of 218 psi (1.5 MPa) in tensile at the time of application.

Repairs to cementitious substrates, filling of blowholes, leveling of irregularities, etc. should be carried out using an appropriate Sika profiling mortar. Contact Sika Technical Service for a recommendation.

Edge Terminations

All free edges of a Sika® Ucrete® floor, whether at the perimeter, along gutters or at drains require extra anchorage to distribute mechanical and thermal stresses. This is best achieved by forming or cutting grooves in the concrete. Grooves should have a depth and width of 2 times thickness of the Sika® Ucrete® floor.

If necessary, protect all free edges with mechanically attached metal strips. Do not featheredge, always turn into an anchor groove.

Expansion Joints

Expansion joints should be provided in the substrates at the intersection of dissimilar materials. Isolate areas subject to thermal stresses, vibration movements or around load-bearing columns and at vessel sealing rings. Refer to details provided at <http://usa.sika.com>.

Priming

Substrate priming is normally not required under typical circumstances. However, due to variations in concrete quality, surface conditions, surface preparation and ambient conditions, test areas are recommended to determine whether priming is required to prevent the possibility of outgassing blisters, debonding, pinholes and other aesthetic variations.

Standard primer procedure is a 15-20 mils scratch coat of Sika® Ucrete® TC31 NA or Sika® Ucrete® HS24 NA and light broadcasting of dry quartz sand. This is the preferred method for concrete substrates.

MIXING

Part 1 : Part 2 : 2xPart 3 : Part 4 = **Mix full units only**

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Mixing will be affected by temperature; condition materials to 60° - 72 °F for optimum performance. TheSika® Ucrete® UD 200 Part 1 is a white liquid which can separate into a clear and oily mixture over time. The container should be lightly shaken before use.

Add the liquid components (Part 1, Part 2, and Part 4) to the mixer and blend for 20–60 seconds until uniform depending upon mixer efficiency. Normally 30 seconds when mixed with a drill and jiffy paddle, and for up to 1 minute when mixed in a large mortar mixer.

Add Part 3 pouring slowly over a period of 20 seconds while mixing continues. **Do not dump the powder into the liquids.** Mix until the aggregate is thoroughly dispersed and the mix is uniform, typically 2 1/2 - 3 minutes. Sika® Ucrete® is a balanced system, it is important that all of each of the components are added to the mixer, failure to do so is likely to result in blistering of the floor.

APPLICATION

Sika® Ucrete® IF is typically applied using a screed box and finished with standard steel plastering or concrete finishing trowels. Serrated trowels must not be used. The mixed material contains sufficient resin to properly wet the concrete substrate under normal conditions; therefore, a primer is not required. After screeding the material should be finished with trowels to compact the mortar and close any voids or screed lines. Once finished, the surface may be lightly rolled (1-2 passes) using a loop roller or 1/4" - 3/8" short nap roller to assist in removing minor imperfections or trowel marks. Excessive finish troweling or rolling should be avoided, as it may adversely affect the anti-slip characteristics of the finish.

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/about-us/terms-conditions-of-sale.html> or by calling 1-800-933-7452.

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