BUILDING TRUST

PRODUCT DATA SHEET

Sika® Ucrete® UD 200 SR

(formerly Ucrete® UD 200 SR)

Hygienic, heavy-duty polyurethane floor screed with very good slip resistance

PRODUCT DESCRIPTION

Sika® Ucrete® UD 200 SR is a heavy-duty resin floor with very good resistance to aggressive chemicals, heavy impact and temperatures up to 302 °F.

USES

Sika® Ucrete® UD 200 SR is used as a wearing layer screed for Sika® Ucrete® flooring systems.
Sika® Ucrete® UD 200 SR 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.

CHARACTERISTICS / ADVANTAGES

- Expert installation by fully trained and licensed applicators
- Resistant to bacterial or mold growth
- Suitable for application on to 7-day-old concrete and 3-day-old polymer screed
- Can be accelerated with Sika® Ucrete® Accelerator for fast installation within a 12-hour window
- Very good resistance to specific 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	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® UD 200 SR Part 3:	Bag containing 32 lbs (14.515 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® UD 200 SR 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® UD200 Part 1	9 months
	Sika® Ucrete® NA Part 2	12 months
	Sika® Ucrete® UD 200 SR 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 40 °F and 85 °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	7541 psi	(ASTM C579)
Modulus of Elasticity in Compression	3250 MPa		(BS 6319-6)
Flexural Strength	Cured 28 days at 73 °F	2030 psi	(ASTM C580)
Tensile Strength	Cured for 28 days at 68 °F	870 psi	(ASTM C307)
Tensile Adhesion Strength	> 290 psi (concrete failure)		(ASTM D4541)
Coefficient of Thermal Expansion	2.2×10^{-5} °F^{-1}		(ASTM C531)
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
	1/4"	-13 °F	176 °F	-
	3/8"	-40 °F	248 °F	-
	1/2"	-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® UD 200 SR	25 ft² for 1/4 in 18 ft² for 3/8 in 12.5 ft² for 1/2 in

Layer Thickness

~1/4–1/2 in

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	16–24 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 1/4 in Sika® Ucrete® UD 200 SR floor is fully resistant to liquid spillage and discharge up to 176 °F and can be lightly steam-cleaned. Suitable for freezer temperatures down to -13 °F.
- A 3/8 in Sika® Ucrete® UD 200 SR 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.
- A 1/2 in Sika® Ucrete® UD 200 SR 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.

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 protectedfrom 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**
Mixing will be affected by temperature; condition materials to 60° - 72 °F for optimum performance. The Sika® 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® UD 200 SR 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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