

PRODUCT DATA SHEET

Sika® Ucrete® HS24 NA

SELF LEVELING POLYURETHANE CEMENTITIOUS SLURRY FOR GENERAL INDUSTRIAL AND COMMERCIAL USE

PRODUCT DESCRIPTION

Sika® Ucrete® HS24 NA is a phthalate-free, water dispersed polyurethane based/cement and aggregate screed, applicable at thicknesses ranging from 80 to 160 mils (2 to 4 mm). It is designed to be installed as a self leveling floor topping that provides an easy-to-clean, smooth surface with slip resistance and is typically used for general, industrial applications. Sika® Ucrete® HS24 NA represents superior polyurethane/cement technology, combining easier application and improved performance.

USES

Sika® Ucrete® HS24 NA may only be used by experienced professionals.

- Typically used in areas of medium to heavy loading and abrasion, to provide a smooth, flat self-leveling layer in general industrial areas, including warehouses, production facilities, laboratories and workshops, either with or without a Sikafloor® sealer top coat.
- As a neat or broadcasted screed with optional UV-stable topcoat.
- When used as a base coat or layer for a MVT system, the minimum thickness of the Sika® Ucrete® HS24 NA is 125 mils. This is the minimum thickness prior to the broadcast of any aggregate.

CHARACTERISTICS / ADVANTAGES

- Can be applied on green concrete, typically 7 -10 days. Full 28 days cure time is not necessary.
- Can be applied over partially cured concrete substrates (>4% mass (pbw-part by weight)) as measured with Tramex® CME/CMExpert type concrete moisture meter (surface moisture).
- Can be applied to concrete substrates where <100% relative humidity is measured as per ASTM F2170.
- Resists a very wide range of organic and inorganic acids, alkalis, amines, salts, and solvents. Consult Sika Technical Service for full details. Refer to the Sika® Ucrete® HS24 NA Chemical Resistance Chart.
- Similar coefficient of thermal expansion to concrete allowing movement with the substrate through normal thermal cycling. It will perform and retain its physical characteristics through a wide temperature range from -40 °F (-40 °C) up to 248 °F (120 °C).
- Non-tainting, odorless.
- Behaves plastically under impact / deforms but will not crack or debond.
- High abrasion qualities result from its aggregate structure.
- Maintain and extend existing expansion joints up through the Sika® Ucrete® Flooring System.
- Minimal maintenance costs, superior life cycle cost advantage versus tile.
- Meets the requirements of USDA for use in food plants

PRODUCT INFORMATION

Packaging	Sika® Ucrete® NA Part 1:	Box containing 4 jugs each jug contains 0.897 US gal
	Sika® Ucrete® NA Part 2:	Box containing 4 jugs each jug contains 0.71 US gal
	Sika® Ucrete® HS24 NA Part 3:	Bag containing 45.21 lbs (20.51 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® NA Part 1 1 box of Sika® Ucrete® NA Part 2 2 bags of Sika® Ucrete® HS24 NA Part 3 *Sika® Ucrete® Part 4 not included
	Color	Blue Cream Green Green Brown/Charcoal Grey Light Grey Red
Shelf Life	Sika® Ucrete® NA Part 1	9 months
	Sika® Ucrete® NA Part 2	12 months
	Sika® Ucrete® HS24 NA Part 3	9 months
	Sika® Ucrete® Part 4	24 months
Storage Conditions	Store dry between 50° - 77 °F (10°- 25 °C). Protect from freezing. If frozen, discard.	
Density	14.45 lb/US gal. (1.73 kg/L)	ASTM C905 at 73 °F (23 °C) and 50% R.H

TECHNICAL INFORMATION

Shore D Hardness	83	ASTM D2240 at 73 °F (23 °C) and 50% R.H
Abrasion Resistance	~0.07 g loss CS-17/1000 cycles/1000g ~0.24 g loss H-22/1000 cycles/1000 g	ASTM D4060 at 73 °F (23 °C) and 50% R.H
Compressive Strength	6,961 psi (48 MPa) 28 days	ASTM 579 at 73 °F (23 °C) and 50% R.H
Flexural Strength	2,726 psi (18.8 MPa)	ASTM C580 at 73 °F (23 °C) and 50% R.H
Tensile Strength	1,290 psi (8.9 MPa)	ASTM C307 at 73 °F (23 °C) and 50% R.H
Shrinkage	0.248%	at 73 °F (23 °C) and 50% R.H
Tensile Adhesion Strength	>400 psi (2.5 MPa) Pull-off Strength	ASTM D7234 at 73 °F (23 °C) and 50% R.H
Thermal Compatibility	Pass	ASTM C884 at 73 °F (23 °C) and 50% R.H

Coefficient of Thermal Expansion	3.02 x 10 ⁻⁵ in/in/°F (5.43 x 10 ⁻⁵ mm/mm/°C)	ASTM C531 at 73 °F (23 °C) and 50% R.H
Combustibility	Class 1	ASTM E-684 With Sika® Ucrete® TC31 NA or Sikafloor®-217 or Sikafloor®-510 LPL Top Coat
Chemical Resistance	Please consult Sikafloor Technical Services	
Microbiological Resistance	Resistance to Fungi Growth Rated 0 (no growth)	ASTM G21 at 73 °F (23 °C) and 50% R.H
	Resistance to Mold Growth Rated 10 (highest resistance)	
Skid / Slip Resistance	~0.77 wet (full broadcast Sikadur®-508, Sika® Ucrete® TC31 NA)	ANSI A137.1/ANSI A326.3 DCOF-BOT 3000e
Indentation	~ 0%	MIL-PRF-24613 at 73 °F (23 °C) and 50% R.H
Service Temperature	-40 °F (-40 °C) min / 248 °F (120 °C) max	
Water Absorption	0.10%	ASTM C413 at 73 °F (23 °C) and 50% R.H
Softening point	266 °F (130 °C)	

APPLICATION INFORMATION

Mixing Ratio	2 x Part 1 : 2 x Part 2 : 1 x Part 3 : 2 x Part 4 Mix full units only			
Coverage	Scratch coat:	Where surface/substrate profile requires such. Not normally required under full quartz broadcast. Approx. 215 ft²/unit (20 m²/unit) @ 40 mils (1 mm) per coat		
	Screed:	These figures do not allow for surface porosity, profile or wastage. Approx. 107 ft² (10 m²) per unit at 80 mils (2 mm) Approx. 71 ft² (6.6 m²) per unit at 120 mils (3 mm)		
	Broadcast Application	Broadcast to excess		
Pot Life	Material Temperature	Time		
	+ 50 °F (10 °C)	~ 25 - 30 minutes		
	+ 68 °F (20 °C)	~ 15 - 20 minutes		
	+ 86 °F (30 °C)	~ 5 - 10 minutes		
Cure Time	Substrate Temperature	Foot Traffic	Light Traffic	Full Cure
	+ 50 °F (10 °C)	~ 24 hours	~ 48 hours	~ 7 days
	+ 68 °F (20 °C)	~ 18 hours	~ 24 hours	~ 5 days
	+ 86 °F (30 °C)	~ 6 hours	~ 18 hours	~ 3 days
Waiting / Recoat Times	Before applying Sika® Ucrete® HS24 NA when a scratch primer and sealer coat is used allow			

Ambient & Substrate Temperature	Minimum	Maximum
+ 50 °F (10 °C)	12 hours	24 hours
+ 68 °F (20 °C)	3 hours	12 hours
+ 86 °F (30 °C)	2 hours	8 hours

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.

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 non-porous 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, form 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 tension 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 feather edge, always turn into an anchor groove.

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>.

MIXING

Mix Ratio

2 x Part 1 : 2 x Part 2 : 1 x Part 3 : 2 x Part 4

Note: Mix full units only

Mixing will be affected by temperature; condition materials for use to 65 to 75°F (18 to 24°C) for at least 24 hours before use.

Use a low speed drill (300 - 450 rpm) and Exomixer-type mixing paddle (recommended) suited to the size of mixing container to minimize air entrapment.

Premix Parts 1 and 2 separately. Pour Part 1, Part 2, and Part 4 into a clean mixing bucket, and mix for 30 seconds. Add Part 3 (powder) pouring slowly over a period of 20 seconds.

DO NOT DUMP POWDER INTO RESIN, ADD GRADUALLY. Allow component 3 to further blend for 2 1/2 more minutes after all of the powder is emptied into the resin to ensure all powder is wetted out and a completely uniform mix is achieved.

During the mixing operation, and observing good safety practices, ie turning off and removing revolving parts, scrape down the sides and bottom of the mixing

container with a flat or straight edge trowel at least once to ensure complete blending of Parts 1 + 2 + 3 + 4.

Note: Do not attempt to attend to unmixed material that may gather on the sides of the mixing container while mechanical or electrical parts are in motion.

APPLICATION

Priming of concrete substrates is not usually required under typical circumstances. However, due to variations in concrete quality, surface conditions, surface preparation and ambient conditions, reference test areas are recommended to determine whether priming is required to prevent the possibility of blisters, debonding, pinholes and other aesthetic variations. **Note:** Given the fluidity and relatively thin-layer installation of Sika® Ucrete® HS24 NA a primer for porous substrates or a scratch coat where the surface profile demands such, are highly recommended.

Smooth Application

For smooth non-broadcasted applications, a primer or scratch coat is required.

Primer

Mix and apply a primer coat of Sika® Ucrete® TC31 NA at a consumption of approximately 168 - 224 ft²/unit (15.6-20.8 m²/unit) per coat to achieve a complete 15-20 mils w.f.t. coverage of the substrate, using a short or medium nap roller. Work the priming resin well into the surface, making sure the floor is fully wetted and then pull back lightly with the roller to the required thickness. Prime retaining (anchor) grooves but do not fill. Allow a cure period of at least 3 hours at 68°F (20°C) before application of the smooth screed mortar.

Scratch Coat (optional)

Where the surface profile requires such and where a flat floor is intended, mix and apply a scratch coat of Sika® Ucrete® HS24 NA using steel trowels to spread the materials at a consumption of approximately 215 ft²/unit (20 m²/unit) per unit, achieving a minimum 40 mils (1 mm) thickness. This application must be applied to seal the concrete surface, fill in surface irregularities; including pock marks, non-moving control joints and cracks. (Note: Should the scratch coat at 40 mils (1 mm) not fill and level the irregularities, additional coats can be applied, observing the necessary intercoat curing times). Allow a cure period of at least 3 hours at 68°F (20°C) before application of the screed.

Smooth Screed:

Mix and pour the Sika® Ucrete® HS24 NA onto the floor. Spread to the desired thickness, from 80 - 160 mils (2 - 4 mm), at approximate consumptions of 107 ft² (10 m²) per unit at 80 mils (2 mm) to 53.5 ft² (5 m²) per unit at 160 mils (4 mm), using a notched trowel or pin or cam gauge rake. Note: Take care to spread freshly mixed

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materials across the transition of previously applied mixes before the previously applied material begins to set. Immediately spike roll the surface to release trapped air in the matrix. Roller spikes must be at least three times longer than the applied product thickness. Allow a minimum 24 hours cure period at 68°F (20°C) before foot traffic.

Broadcast Application 125 mils (3 mm) Primer

Priming or scratch coat of concrete substrates is not usually required under typical circumstances. However, due to variations in concrete quality, surface conditions, surface preparation and ambient conditions, reference test areas are recommended to determine whether priming is required to prevent the possibility of outgassing blisters, debonding, pinholes and other aesthetic variations. For a primer, use either Sika® Ucrete® TC31 NA or Sika® Ucrete® HS24 NA Scratch Coat.

Screed:

Mix and pour the Sika® Ucrete® HS24 NA materials on the floor. Spread mixed material to approximately 107 ft² (10 m²) per unit at 80 mils (2 mm) to 53.5 ft² (5 m²) per unit at 160 mils (4 mm) using a screed gauge rake or trowel. Take care to spread newly mixed materials across the transition of previously applied mixes before the surface begins to set. Immediately spike roll the surface to release trapped air in the matrix. Broadcast selected aggregate to rejection. Aggregate must fall vertically to avoid surface defects / do not broadcast up to the transition line of new mixes, always broadcast 2 - 3 feet beyond the wet edge. Allow broadcast surface to cure sufficiently to be able to resist foot traffic without damaging the surface. Remove excess aggregate by sweeping or vacuuming until surface is free of all loose particles and dust.

A topcoat of Sika® Ucrete® TC31 NA or other topcoats depending on applications can be applied to lock in the aggregate. Please consult Sikafloor Technical Services for alternative topcoat options. Allow a minimum 12 hour cure period at 68°F (20°C) before light traffic after the Sika® Ucrete® TC31 NA is applied.

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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