BUILDING TRUST

PRODUCT DATA SHEET

Sika® Ucrete® WR

(formerly Ucrete® WR)

HIGH STRENGTH POLYURETHANE CEMENTITIOUS COVING MORTAR ENGINEERED WITH SIKA® UCRETE® RG29 NA CAN BE INSTALLED TO ANY HEIGHT FROM 1/8" - 1/4" (125 - 250 MILS) THICKNESS

PRODUCT DESCRIPTION

Sika® Ucrete® WR is a vertical grade, solid color, water dispersed polyurethane cement and aggregate mortar used for detailing, vertical and coving. It has a finely textured smooth aggregate appearance that provides excellent resistance to abrasion, impact, chemical attack and other physical aggression. System can be installed to any hight from 1/8'' - 1/4'' (125 - 250 mils) thickness.

USES

Sika® Ucrete® WR may only be used by experienced professionals.

- Sika® Ucrete® WR is primarily used for vertical application of cove on concrete substrates.
- Typically used in food processing plants, wet and dry process areas, freezers and coolers, dairies, breweries, wineries, distilleries, laboratories, chemical process plants, pulp and paper plants, warehouses and storage areas.

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.
- Substrate has tensile bond strength in excess of 218 psi (1.5 MPa). Substrate has tensile bond strength in excess of 218 psi (1.5 MPa).
- Resists a very wide range of organic and inorganic acids, alkalis, amines, salts and solvents. Consult Sika Technical Service for full details.
- 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).
- Steam cleanable at 1/8'' to 1/4'' (125 to 250 mils) thickness.
- 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	Please refer to the individual Product Data Sheets
Color	Available in standard Sika® Ucrete® colors
Shelf Life	Please refer to the individual Product Data Sheets
Storage Conditions	Please refer to the individual Product Data Sheets
Thickness	1/8" to 1/4" (125 - 250 mils)

TECHNICAL INFORMATION

Shore D Hardness	80 - 85	ASTM D2240 at 73 °F (23 °C) and 50% R.H
Abrasion Resistance	CS-17/1,000 cycles/1,000 g - 0.09 g loss H-22/1,000 cycles/1,000 g - 4.01 g loss	ASTM D4060 at 73 °F (23 °C) and 50% R.H
Impact Strength	6.70 ft-lb (9.08 joules) at 1/8" (3 mm) of thickness	ASTM D2794 at 73 °F (23 °C) and 50% R.H
Compressive Strength	2,901 psi (20 MPa)	ASTM C579 at 73 °F (23 °C) and 50% R.H
Flexural Strength	1,175 psi (8.1 MPa)	ASTM C580 at 73 °F (23 °C) and 50% R. H
Tensile Strength	363 psi (2.5 MPa)	C307 at 73 °F (23 °C) and 50% R.H
Tensile Adhesion Strength	>400 psi (2.5 MPa)	ASTM D7234 at 73 °F (23 °C) and 50% R.H
Coefficient of Thermal Expansion	0.72 x 10^5 in/in/°F (1.3 x 10^5 mm/mm/°C)	ASTM D696 at 73 °F (23 °C) and 50% R.H
Microbiological Resistance	Resistance to Fungi Growth Rated 0 (no growth) Resistance to Mold Growth Rated 10 (highest resistance)	ASTM G21 at 73 °F (23 °C) and 50% R.H ASTM D3273 at 73 °F (23 °C) and 50% R.H
Thermal Conductivity	Pass	ASTM C884 at 73 °F (23 °C) and 50% R.H
Water Absorption	0.16%	ASTM C413 at 73 °F (23 °C) and 50% R.H
Indentation	~ 0%	MIL-PRF-24613 at 73 °F (23 °C) and 50% R.H

APPLICATION INFORMATION

Coverage

Description	Products	Approximate Lin.Ft./kit
Primer	Sika® Ucrete TC31 NA	1,344 @ 8 mils
Mortar	Sika® Ucrete RG29 NA	30 @ 1/8" & 1" radius
Top Coat	Sika® Ucrete TC31 NA	1,260 @ 1/8" 1" radius
Optional Primer	Sikafloor®-161	2,700 @ 8 mils

Ambient Air Temperature

Minimum/Maximum 40°/85°F (4°/30°C)

Substrate Temperature

Minimum/Maximum 40°/85°F (4°/30°C)

Pot Life

Please refer to the individual Product Data Sheets

Waiting / Recoat Times

Please refer to the individual Product Data Sheets

SYSTEM INFORMATION

System Structure

Sika® Ucrete® WR System at 1/8" - 1/4" (125 - 250 mils)

Description	Products	Thickness mils
Primer	Sika® Ucrete® TC31 NA	8 - 10
Mortar	Sika® Ucrete® RG29 NA	125 - 250 with 1" radius
Top Coat	Sika® Ucrete® TC31 NA	8 - 10

Options

Description	Products	Thickness mils
Primer	Sikafloor®-161	8 - 10

Please consult with Sika representative for additional options

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

Please refer to the individual Product Data Sheet for each component.

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

Surface should 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 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) 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 the thickness of the Sika® Ucrete® floor. Contact Sikafloor Technical Service for more information and construction details.

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 at https://usa.sika.com/flooring.

Priming
Please refer to the individual Product Data Sheet for each component.

MIXING

Please refer to the individual Product Data Sheet for each component.

APPLICATION

Please refer to the individual Product Data Sheet for each component.

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.

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