

## SYSTEM DATA SHEET

# Sika® Ucrete® UPF

### SELF-LEVELING CEMENTITIOUS URETHANE WITH DECORATIVE FLAKE BROADCAST AND SIKAFLOOR®-71 TC PRONTO

#### PRODUCT DESCRIPTION

Sika® Ucrete® UPF is a multi layer moisture control and decorative flake floor system. The first layer creates a moisture vapor tolerant barrier between the concrete substrate and finished Sika® Ucrete® UPF system. It consists of a self-leveling, cementitious urethane slurry with broadcast to rejection with Sikadur® aggregate. The second layer is an aesthetic, easy to clean, seamless floor using Sikafloor®-61 BC Pronto binder that is broadcast with a colored vinyl flake blend and sealed with Sikafloor®-71 TC Pronto. The system is customizable with an extensive blend palette. Finish surface options include an integral cove base and variable surface texture to produce a range of slip-resistant finishes. Sika® Ucrete® UPF typically installed @ nominal 3/16" (4.5 mm or ~187 mils).

#### USES

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

- Used to resurface and coat concrete floors
- Use where aesthetics are a concern
- Utilize clear aluminum oxide broadcast for areas that require a non-skid texture
- Pharmaceutical and Bio-Tech research
- Life Sciences
- Retail and Supermarkets
- Hospitals, health care, and medical research facilities
- Public assembly facilities and stadiums
- Restaurants - certified usage for the food industry and commercial kitchens
- Freezers, coolers, and refrigerated storage
- Restrooms, showers, lockers, and hydrotherapy facilities

- Dry process areas
- Packaging rooms
- Breweries and Wineries

#### 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 (> 6% mass (pbw –part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter).
- Can be applied to concrete substrates where <100 % relative humidity is measured as per ASTM F2170.
- Substrate has minimum compressive strength of 3625 psi (25 MPa) and tensile strength in excess of 218 psi (1.5 MPa).
- It will perform and retain its physical characteristics through a wide temperature range from -40 °F (-40 °C) up to 180 °F (82 °C).
- Maintain and extend existing expansion joints up through the Sika® Ucrete® UPF Flooring System.
- Minimal maintenance costs, quicker turn around time and return to service
- Seamless, impervious floor system that is easy to sanitize, clean and maintain.
- UV resistance that provides long term color performance.
- Decorative flake broadcast provides an aesthetic texture that hides visible dirt.
- Excellent chemical resistance for a wide range of applications.
- No waxing or stripping required for maintenance dramatically reduces cleaning costs.
- Superior life cycle cost advantage versus tile, epoxy, polyaspartic, and polyurethane systems.
- Meets the requirements of USDA for use in food plants.

# SYSTEM INFORMATION

## System Structure

Sika® Ucrete® UPF ~3/16" (4.5mm or ~187 mils)

Description	Products	Thickness mils
1. Body Coat	Sika® Ucrete® HS24 NA	125
a. Broadcast	+ Sikadur®-508 aggregate	0.5 lb/sq.ft.
2. Receiver Coat	Sikafloor®-61 BC Pronto with Sikafloor® PGM 155 Pronto	16 - 20
a. Broadcast	+ Sika Decorative Flake	8 - 10
3. First Top Coat	Sikafloor®-71 TC Pronto	16 - 20
4. Second Top Coat	Sikafloor®-71 TC Pronto	12 - 16

### Options

Description	Products	Thickness mils
Primer	Sika® Ucrete® TC31 NA	15
Accelerator	Sika® Ucrete® Accelerator	
Scratch Coat	Sika® Ucrete® HS24 NA*	40 - 60

\*Primer/Scratch coat required if applied with a flake broadcast direct into Sika® Ucrete® HS24 NA system. If a second broadcast is needed apply Sikafloor®-61BC Pronto neat @ 12-16 mils and broadcast decorative flake ~0.15-0.18 lbs/sq. ft or 5-6 sf/lb depending on flake size.

\*\*Please consult Sika Technical Service for 1/16" or 3/8" + flake blends for Sika® Ucrete® HS24 NA

\*\*\*Please consult Sika Technical Service for Sika® Ucrete® Accelerator dosages for Sika® Ucrete® HS24 NA and TC31 NA

## Color

Available in various standard color blends, refer to Sikafloor® DecoFlake® color guide.

## Nominal thickness

3/16" - 1/4" (187 - 250 mils)

## Minimum thickness

5/32" (156 mils)

# TECHNICAL INFORMATION

Shore D Hardness	Sikafloor®-71 TC Pronto 80	ASTM D2240
Abrasion Resistance	Sikafloor®-71 TC Pronto 54 mg loss, 1000 cycles, CS17 wheel	ASTM D4060
Tensile Strength	Sikafloor®-71 TC Pronto 3,555 psi	ASTM D638
Service Temperature	180 °F (82 °C)	
Water Absorption	Sikafloor®-71 TC Pronto 0.04% / 24 hours	ASTM D570
Elongation at break	Sikafloor®-71 TC Pronto 4%	ASTM D638

## APPLICATION INFORMATION

Coverage	Description	Products	Approximate Sq.Ft./batch
1. Body Coat	1. Body Coat	Sika® Ucrete® HS24 NA	145 sq.ft. @ 125 mils
a. Broadcast	a. Broadcast	+ Sikadur®-508 Aggregate	100 sq.ft. per bag
2. Receiver Coat	2. Receiver Coat	Sikafloor®-61 BC Pronto	80 - 100 sq.ft./gal
a. Broadcast	a. Broadcast	with Sikafloor® PGM 155 Pronto + Sika Decorative Flake	~6 sq.ft./pound
3. First Top Coat	3. First Top Coat	Sikafloor®-71 TC Pronto	80 - 100 sq.ft./gal
4. Second Top Coat	4. Second Top Coat	Sikafloor®-71 TC Pronto	100 - 125 sq.ft./gal

All coverage rates are approximate. Coverage rates will vary with the desired texture and porosity of substrate.

<b>Ambient Air Temperature</b>	Minimum/Maximum 40°/85°F (4°/30°C) for Sika® Ucrete® HS24 NA Body Coat Minimum/Maximum 24°/90°F (-4°/32°C) for Sikafloor® Pronto® MMA Resins
<b>Substrate Temperature</b>	Minimum/Maximum 40°/85°F (4°/30°C) for Sika® Ucrete® HS24 NA Body Coat Minimum/Maximum 24°/90°F (-4°/32°C) for Sikafloor® Pronto® MMA Resins

## 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.

## USES

Please refer to the individual Product Data Sheets

## 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

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® UPF 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® UPF floor. Refer to the edge details provided at <http://usa.sika.com>. If necessary, protect all free edges with mechanically attached metal strips. Do not featheredge, always turn into an anchoring 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>.

### MIXING

Please refer to the individual Product Data Sheets

### APPLICATION

Please refer to the individual Product Data Sheets

## 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](http://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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