

SYSTEM DATA SHEET

Sika® Ucrete® UPQ+

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

PRODUCT DESCRIPTION

Sika® Ucrete® UPQ+ is a multi layer moisture control and decorative quartz floor system. The first layer creates a moisture vapor tolerant barrier between the concrete substrate and finished Sika® Ucrete® UPQ+ system. It consists of a self-leveling, cementitious urethane slurry broadcasted to rejection with Sikafloor® Decorative colored quartz 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® UPQ+ typically installed @ nominal 1/4" (6 mm or ~250 mils).

USES

Sika® Ucrete® UPQ+ may only be used by experienced professionals.

- Used to resurface and coat concrete floors
- Use where aesthetics and texture are desired
- 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® UPQ+ 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 quartz broadcast provides a homogeneous textured surface for durable performance.
- 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® UPQ+ ~1/4" (6 mm or ~250 mils)

Description	Products	Thickness mils
1. Body Coat	Sika® Ucrete® HS22 NA	125
a. Broadcast	+ Sikafloor® Decorative Quartz (40S or 25 A)	0.5 - 0.75 lb/sq.ft.
2. First Top Coat	Sikafloor®-71 TC Pronto	16 - 20
3. Second Top Coat	Sikafloor®-71 TC Pronto	12 - 16

Options

Description	Products	Thickness mils
Primer	Sika® Ucrete® TC31 NA	15
Receiver Coat Broadcast	Sikafloor®-61 BC Pronto + Sikafloor® Decorative Quartz	20 - 25 8 - 10
Accelerator	Sika® Ucrete® Accelerator	
Scratch Coat + Sikadur®-508 aggregate for enhanced bond	Sika® Ucrete® HS24 NA	40 - 60

- If a second broadcast is needed apply Sikafloor®-61 BC Pronto neat @ 20 - 25 mils and broadcast Sikafloor® Decorative Quartz ~0.15-0.18 lbs/sq.ft or 5-6 sq.ft/lb depending on quartz size.
- Please contact Sika Technical Service for Sika® Ucrete® Accelerator dosages for Sika® Ucrete® HS22 NA and TC31 NA

Color

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

Nominal thickness

1/4" - 5/16" (250 - 315 mils)

Minimum thickness

7/32" (230 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	Sika® Ucrete® HS22 NA	145 sq.ft. @ 125 mils
	a. Broadcast	+Sikafloor® Decorative Quartz	75 - 100 sq.ft./bag
	2. Optional Receiver Coat	Sikafloor®-61 BC Pronto	60 - 80 sq.ft./gal
	a. Broadcast	+Sikafloor® Decorative Quartz	~6 sq.ft./pound
	3. First Top Coat	Sikafloor®-71 TC Pronto	80 - 100 sq.ft./gal
	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.			
Ambient Air Temperature	Minimum/Maximum 40°/85°F (4°/30°C) for Sika® Ucrete® HS22 NA Body Coat		
	Minimum/Maximum 24°/90°F (-4°/32°C) for Sikafloor® Pronto® MMA Resins		
Substrate Temperature	Minimum/Maximum 40°/85°F (4°/30°C) for Sika® Ucrete® HS22 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.

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® UPQ+ 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® UPQ+ 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 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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