

STONELOK™ "2K2"

Highest Durability Coating

StoneLok "2K2" is RJSC's all-new updated version of StoneLok "2K",

for more than a decade the most durable, water-borne 2-component polyurethane system for the most rigorous commercial, industrial and architectural installations.

STONELOK "2K2" CT is newly and specifically formulated for Countertop Applications.

PROPERTY	RESULTS	ASTM METHOD
% Solids	64 typical	D 3960
Weight Per Gallon (in lbs)	8.87	D 1475
VOC	48 g/L ¹	D 3960
Pot Life	2 – 4 hours	NA
Recoat Time	6 – 24 hours	NA
Set to Touch	2 hours	D 1650
Print Free Time	12 hours	D 1650
Pencil Hardness	5H	D 3363
Direct Impact Resistance	>160 in/lbs	G 14-88
Indirect Impact Resistance	>160 in/lbs	G 14-88
Abrasion Resistance (CS-17 Disk, 1000 grams, 1000 cycles)	20 mgs loss	D 4060
CHEMICAL RESISTANCE (24 hour covered spot test)		
10% Hydrochloric Acid	No Effect	D 1308-87
25% Nitric Acid	Film Destroyed	D 1308-87
10 minute spot test	no effect	
20 minute spot test	8/few blisters	
30 minute spot test	8/medium blisters	
10% Sulfuric Acid	No Effect	D 1308-87
10% Ammonia	8 F Blisters	
10 minute spot test	no effect	
20 minute spot test	no effect	
30 minute spot test	slt.sftng/recovers	
Saturated Sugar Solution	No Effect	D 1308-87
Saturated Salt Solution	No Effect	D 1308-87
Methanol	No Effect	D 1308-87
Butanol	slt.sftng/recovers	D 1308-87
Mineral Spirits	No Effect	D 1308-87
Gasoline	No Effect	D 1308-87
Xylene	No Effect	D 1308-87
Motor Oil	No Effect	D 1308-87
Clorox	No Effect	D 1308-87

The new StoneLok "2K2" still features extraordinary abrasion resistance, 2x that for typical urethanes and 4x greater than typical epoxies. Performance characteristics, including high UV-, heat- and chemical-resistances, make "2K2" the ideal finish coat(s) for an incredibly wide range of installations from offices to retail stores, from hospitals to hotels, and from schools to senior living residences.

A system of StoneLok "2K2" over RJSC's StoneLok "E3" and/or TK6™ NanoCoat provides highest durability plus extraordinary protection. Virtually any design objective can be achieved with RJSC Colloidal Dyes added to RJSC primers and coatings.

StoneLok "2K2" requires precise, skilled application, but it is less sensitive than its predecessor and the end result is still the most durable finish coat for protecting engineered cements, concrete, tile, dimensional stone, and other architectural building materials.

Available in XTRA Low Gloss, Low Gloss and Gloss and all three in Anti-Skid versions; and as "2K2" CT for Countertops. Coverage is ~400 sq.ft./gallon.

To order or for technical support contact:

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STONELOK™ “2K2” DIRECTIONS FOR USE

Product, substrate and site temperature, when mixing, during application and during cure, must be 65°- 85° F., with humidity <60%, and with good air circulation (typically box fans are required) for normal cure.

One “UNIT” = 2 containers. Identify the bottles! (They are shipped in correct mix ratios)

A = RESIN SIDE [waterborne resin] larger bottle

B = CATALYST SIDE [curing catalyst] smaller bottle

FOLLOW DIRECTIONS EXACTLY

- Use **NEW** mixing pails: a 2-gallon pail for 1-gallon unit; a 1-gallon pail for 3-pint unit
 - **Never mix more than 1 gallon of product in a single pail.**
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1. **SHAKE PART "A"**

2. **POUR one PART "A" bottle – then – one PART "B" bottle --- into a mixing pail.**

For smaller volumes the mix is 2.5 Parts "A" [plus] 1 Part "B"

3. **Blade-stir with a drill for 5 minutes -- at low speed to minimize air entrainment and internal heat.** Work pail walls and bottom well -- the mix must be *totally* blended!

4. **WAIT 15 MINUTES** -- [*induction time to start reaction*]

5. **AFTER WAITING the induction time, DILUTE WITH 20% WATER as below**

For 1-gallon unit, add 24.3 fluid ounces water (720 mls).

For 3-pint unit, add 9.2 fluid ounces water (272 mls).

6. **BLADE MIX AGAIN for 1-2 minutes at low speed.**

You now have about 45 minute pot life.

7. **APPLY with an airless sprayer** at lowest pressure with a 6-15 or 6-17 nozzle and 100'-150' of hose.

For "2K2" Anti-Skid finishes use a 6-19 nozzle and remove filters in gun or use a paint-pad. Keep the solution continuously stirred. Occasionally back-clear gun.

Apply a thin, even coat -- typically 4 - 5 mils wet film thickness [~400 sq.ft. per gallon over sealed or tight surface; about 350 sq.ft./gallon over more porous substrate]. **This looks like a thin layer of no fat milk---the floor is “foggy-hazy”---never white.**

Walking backwards, spray each pass about 4' – 6' across, with a feather release at each change of direction, and an overlap of at least 50%.

Plan the application so that you can work WET to WET and continuously monitor coverage guidelines.

If an airless sprayer is not available, a short-nap roller (3/16" or max 1/4") or paint pad may be used by very skilled applicators. Product must be applied in "V's/W's" as below. Be sure not to overwork/over-roll. Change rollers as needed!

As above, continuously monitor coverage guidelines and work WET to WET.

If edge cut-in is needed, this must be done simultaneously with adjacent application, not before.

For roller application, visually measure off AN AREA ABOUT 4' X 4'

- ◆ **LOAD ROLLER and CREATE A "V" OR "W" IN THE ABOVE AREA.**
 - ◆ *Do NOT pour product onto surface.*
 - ◆ **Working in a pull/push mode** (away from you and towards you), **QUICKLY SPREAD THE MATERIAL.** Work with a free hand. The idea is just to spread the material evenly.
 - ◆ **LIGHTLY BACKROLL. Do not overwork.**
 - ◆ **REPEAT THE ABOVE ADJACENT to the first area, OVERLAPPING THE NEW "V"/"W" SLIGHTLY INTO THE OLD.**
 - ◆ **YOU WANT TO WORK VERY FAST so that overlaps are WET to WET. YOU WANT THE LOOK TO BE "HAZY FOGGY" -- like no-fat milk -- NEVER WHITE. IF THERE ARE ANY WHITE SPOTS (from drips, too heavy application, etc) IMMEDIATELY ROLL OUT.**
8. **Cure conditions** -- The water must leave the film for cure. Movement of air speeds cure time by removing the pillow of moist air that forms as the water leaves the coating. **In closed, "air-off" jobs, or if the air will be turned off within the first 12 hours of cure, it is very important to have box fans blowing about 2' - 3' up and across the surface** to maximize the cure speed and final resin density; and to ensure finish gloss as specified.

The material is typically print-free in 8 - 10 hours. Floors are typically walkable by LIGHT traffic in 15 - 18 hours. If needed for ongoing construction or transport, sealed surface can be covered with Kraft paper and Masonite about 15 hours after coating. **BUT -- if covered prior to final cure (3 – 4 days) and especially if there is potential for humidity build-up or turn-off of air, YOU MUST UNCOVER for the first 2 - 3 nights to allow for final cure; and re-cover in the morning.**

NEVER COVER WITH PLASTIC!

It's best to keep everything off the substrate for 24 hours (48 if possible) and final strength takes 3 - 4 days. For counters, it is best to allow 72 hours before exposure to chemicals or cleaning. THEN, clean only with RJSC cleaners.

Typical dry times above are temperature, humidity and air circulation dependent.

Notes on Multiple Coats: A second or third coat of StoneLok “2K” can be applied in 8-24 hour intervals for high-use areas. If two coats are pre-planned and “2K” Anti-Skid is specified, the first coat should be without anti-skid for maximum surface closure; and the final coat with anti-skid.

Close and dispose of containers as chemical waste. Clean up is soap & water. A small amount of acetone helps in spray guns and to remove overspray. Read and follow all job-specific instructions, site MSDS cautions, post-application precautions.

SUBJECT to RJSC MSDS' and LIMITED WARRANTY (below)

The products of Richard James Specialty Chemicals Corporation (RJSC) contain highest quality raw materials and are manufactured under strict conditions of quality control. RJSC cleaners are warranted to conform to manufacturing specifications for a period of one year from initial delivery when stored in conditions greater than 32° F. and below 90° F. RJSC primers, sealers, Colloidal Dyes, primers and sealers with incorporated Colloidal Dyes, and floor finishes are warranted to conform to the manufacturing specifications for a period of six months from initial delivery when stored in conditions greater than 32° F and below 90° F. No warranty or affirmation of fact, express or implied, other than as set forth in this limited warranty is made by RJSC regarding its product(s). This limited warranty only applies to products purchased directly from RJSC. RJSC expressly disclaims all express and/or implied warranties for its product(s) that are not purchased directly from RJSC or are resold to or by third parties.

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Should a claim be asserted against RJSC by any party who did not purchase products directly from RJSC, RJSC shall be indemnified and held harmless by the party who did purchase the products directly from RJSC, including the reasonable attorneys' fees, costs and disbursements incurred by RJSC in its defense of any said claim. This indemnification shall not be deemed or in any manner expand or create a greater obligation on the part of RJSC than that set forth in this Limited Warranty.

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