# Liquid Porcelain Liquid Porcelain™

Base Part A Activator Part B

## Trilon S Series, Tile-Like Acrylic Urethane

### **SPECIFICATIONS**

### **DESCRIPTION:**

Liquid Porcelain and all products of the Liquid Porcelain™ Refinishing System were designed specifically for the tub and tile refinishing industry. Liquid Porcelain provides a water and stain resistant finish that lasts for years and stands up to the difficult service exposure typical of bath and kitchen surfaces. Liquid Porcelain has the best gloss, gloss retention, color retention, and durability today's paint technology can provide. This two part acrylic urethane is hard drying with a resilient, tile-like toughness that gives it unsurpassed impact and abrasion resistance. In addition, Liquid Porcelain is water impermeable and fully resistant to splash and spill type contact from most chemicals. This high quality refinishing enamel is available in three gloss levels: high gloss, semi-gloss, and low semi-gloss.

### Liquid Porcelain is ideal for use on:

- · bathtubs and shower stalls
- bathroom and kitchen countertops and sinks
- countertop backsplash areas

Product results will vary by substrate and application method. It is the user's responsibility to determine the suitability and performance of this product for their application.

### **COLOR AVAILABILITY:**

Liquid Porcelain is stocked in white and black, in three gloss levels. Custom colors available; minimum order is required. Special costing will be applied.

### **ORDER CODE:** [Mix Ratio: 4 Part A:1 Part B, by volume]

Part A	[base]			. LF	249	+ gloss ·	+ color
Part B	[activator]					Ll	P249B
ndividual	products	are	identified	by	the	product	series

number, followed by a gloss identifier and color number. Ex: LP249G700 is Liquid Porcelain, Gloss, White.

### This product is available in:

Gloss	(	
Semi-Gloss		3
Low semi-gloss	N	/

### **PACKAGING:**

This product is packaged in kits, containing both Part A and Part B components. Kit containers may be partially filled to obtain total yeild when mixed. Part R

### Total Yeild:

otal I clia.	i ait A.	i ait D.
40 ounces	1 quart can	1 half pint can
1.25 gallons	1 gallon can	1 quart can
4 (4		

\*Southern California Air Quality Management District regulates this product only be purchased/used in quart sizes or smaller. Sizes larger than 1 quart may NOT be purchased for use as an Architectural or Maintenance coating in regions with these regulations.

### **ADVANTAGES:**

- Low VOC
- · Designed specifically for tub and tile refinishing
- State of the art gloss and color retention
- Excellent chemical, stain, and abrasion resistance
- · Excellent flexibility, chip, and scratch resistance
- Extremely durable; resistant to acidic etching
- Easy to clean and repair

### LIMITATIONS:

- · Not recommended for immersion into gasoline, diesel, hydraulic fluids or solvents
- Proper surface preparation required
- Maximum RH at worksite: 75%

### **PROPERTIES**

DRY SCHEDULE: [at 50% RH and 1.5 mil DFT]				
		60° F	90° F	
	Dry to Touch	60 mins	45 mins	25 mins
	Recoat	8 hrs	2 hrs	60 mins
	Dry to Handle	8 hrs	2 hrs	60 mins

Full Cure 7 days 7 days Critical Recoat Window: After one week light sanding may be necessary if coating is subject to extended exterior exposure.

VOC: [excluding exempt solvents, mixed]	2.00 lbs/gal (242 g/l)
VOC: [including exempt solvents, mixed]	1.31 lbs/gal (154 g/l)
EL ACH DOINT: [cataflach miyed]	76° E (24.4° C)

**WEIGHT PER GALLON:** [mixed] ..  $11.2 \pm 0.5$  lbs (1.34 kg/liter)

APPLICATION VISCOSITY: [recommended, mixed]	Ū	,
# 3 Zahn Seconds	30-	40
SOLIDS: [average, mixed]		
% By Weight	$5 \pm 2$	2%

% By Volume ...... 58 ± 2%

REQUIRED FILM THICKNESS:

ASTM D1005 Minimum Dried Film ...... 1.5 mil (38µ) ASTM D4414 Minimum Wet Film ...... 3.0 mil (76µ)

ASTM D523 GLOSS:

7.0 m 2020 02000.	
@ 60°	90
@ 20°	75
ACTM DOOGS DENCH HADDNESS.	

ASTM D3363 PENCIL HARDNESS:

ASTM D5402 MEK RUBS: 200 Double ...... Pass ASTM D2794 IMPACT RESISTANCE:

160 inlb forward, 160 inlb reverse ...... Pass ASTM B117 SALT SPRAY RESISTANCE:

5% Salt Spray, 150 hours [BondRite 1000] ...... Pass **ASTM D5894UV CORROSION WEATHERING:** ASTM D610 Rusting 7 cycles, 150 hours ...... Pass ASTM D714 Blistering 7 cycles, 100 hours ...... Pass

ASTM D4587/D523/D4214 QUV-UVA:

**ASTM D2247/D714 HUMIDITY RESISTANCE:** 

400 hours [unscribed] ...... Pass ASTM D4585 MOISTURE CONDENSATION:

100° F, 400 hours ...... Pass ASTM D3359 ADHESION:

**ASTM D4060 ABRASION RESISTANCE:** 

CS17 wheel, 110 cycles, 1 kg load ...... < 10 mg

**ASTM D522 FLEXIBILITY:** 

180° bend, 1/4" mandrel ...... Pass ASTM D3170 CHIP RESISTANCE: Rating ......N/A

ASTM D2485 DRY HEAT RESISTANCE:

WET HEAT RESISTANCE: 180° F Non-immersion ...... Pass

**ASTM D2243 WATER-BORNE FREEZE THAW:** 3 cycles ...... N/A

Properties listed above correspond to formula for gloss, white product and may vary by gloss level and/or color. All tests conducted at 1.5-2.0 mils DFT on Bondrite™ 1000 Q-steel panels, fully cured, 7 days, air dry, at 77° F and 50% RH.

TRIANGLE COATINGS, INC.

Sales: 925-583-0800 www.tricoat.com



LP249 SERIES

Base Part A LP249
Activator Part B LP249B

### Liquid Porcelain™

### High Solids, Low VOC, Acrylic Urethane Topcoat

### **APPLICATION DATA**

### **SURFACE PREPARATION:**

All surfaces must be clean, dry, and free of contaminants. All dirt, grease, rust, mill scale, or loose chalky paint must be removed. Surfaces must remain dry and protected from all moisture until fully cured.

Fiberglass and previously painted surfaces must be sanded to dull. Finish sanding surfaces with a very fine 400-600 grit sandpaper; dry brush or vacuum to remove all dust. All substrates must be primed or pre-treated.

### APPLICABLE SUBSTRATES: [when properly prepared]

porcelainFormicafiberglasscast polyester

most metals
 steel

### **RECOMMENDED PRIMERS:**

- 283P309 Aquapoxy™ Primer
- 983P746 TriBond Liquid Porcelain™ adhesion promoter
- 941FAM35 Epoxy Primer Liquid Porcelain™

Consult Triangle Coatings for other primer recommendations.

### **APPLICATION TEMPERATURE:**

- Substrate must remain 10° F above the dew point during application and for 24 hours after application.
- Not recommended for substrate temperatures below 50° F or above 100° F.

### **MIXING PARAMETERS:**

Ratio	:			[Part A :	Part B]
				4.02 :	
				4.00 :	
Swea	t-in Time:				none
ASTI	1 D2196 Pc	t Life: [valid	for qtys of 1 g	allon or more]	
	50° F	65° F	77° F	85° F	

50° F	65° F	77° F	85° F
5 hrs	4 hrs	4 hrs	3 hrs

### **APPLICATION METHODS:**

**Liquid Porcelain** can be applied by HVLP or air assist airless For other types of application, please contact your Triangle Coatings representative. This product should be applied in two distinct coats to avoid pinhole voids. **HVLP**:

Fluid Tip and Needle:	
	10-15 psi
Air Cap Pressure:	60 psi
Air Assist Airless:	
Fluid Tip:	
Fluid Pressure:	900-1,400 psi
Air Cap Pressure	10 psi
	no
Brush or Roller:	limited
THINNING:	AT75*
Add <b>Part B</b> before reducing	g. For conventional spray, reduce
10-15% by volume.	
CLEANUP:	AT75*
Clean tools while Liquid I	Porcelain is still wet

\*ONLY AT75 may be used to clean or thin this product.

### **HEALTH & SAFETY PRECAUTIONS**

### **WARNING:**

FLAMMABLE LIQUID AND VAPOR. DO NOT INGEST. May be harmful if swallowed or inhaled. Vapor may affect the brain or nervous system causing dizziness, headache, or nausea and can cause nose and throat irritation. Liquid contact with eye and skin causes irritation. Keep away from sparks, heat, or open flame. Use with adequate ventilation. Avoid breathing of vapor. Avoid contact with eyes and skin. Wash hands thoroughly after using and before eating and smoking. Wear an appropriately fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrates vapor levels are below applicable limits. Keep container closed when not in use. If spillage occurs, absorb and dispose of according to local regulations.

### Contains:

aromatic hydrocarbon mixture, CAS#64742-95-6 bis 1,2,2,6,6-pentamethyl-4-piperdinyl, CAS#41556-26-7 4-chlorobenzotrifluoride, CAS#98-56-6 homopolymer of HDI, CAS#28182-81-2 n-butyl acetate, CAS#123-86-4 propylene glycol methyl ether acetate, CAS#108-65-6 polyol xylene, CAS#1330-20-7

#### FIRST AID:

Should eye contact occur, flush with plenty of water for at least 15 minutes and get medical attention if vision is disturbed. For skin, wash thoroughly with soap and water. If swallowed, seek medical attention immediately. DO NOT induce vomiting.

### NOTICE:

Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. This product does not contains materials listed in California Proposition 65.

THIS PRODUCT IS FOR PROFESSIONAL USE ONLY. KEEP THIS PRODUCT OUT OF REACH OF CHILDREN.

### SHIPPING & HANDLING

SHIPPING DESCRIPTION: [CI	FR 49]
Ground, Air, Vessel	Paint, 3, UN1263, PG III
Required Label	FLAMMABLE LIQUID
Required Marking	PAINT UN1263
IMDG PACKAGING:	
FLAMMABLE LIQUID,	class 3.3, UN1263, III
IMDG STOWAGE:	Category A
<b>UNIFORM FIRE CODE:</b> [CFR 2	29] CLĀSŠ II
STORAGE TEMPERATURE:	120° F max
SHELF LIFE: [warranted]	1 YEAR
HMIS RATINGS:	H - 2: F - 3: R - 0: PP - H

WARRANTY: The statements made herein, on labels, product bulletins, or by any of Triangle Coatings', Inc. employees or agents concerning this product are given for general information only. Due to variables beyond Triangle's control in application, surface preparation, surface temperature, humidity and other variable factors Triangle assumes no liability for any claim that may arise out of the use of its products and disclaims any warranty expressed or implied relating to the storage, application, thinning, merchantability, Buyer's assumption of performance, and the fitness for a particular purpose. Receipt of products from Triangle or its agents constitutes acceptance of the terms of this warranty. In the event that Triangle finds that the product delivered is not of Triangle's standard quality, Triangle will at its sole discretion, either replace the product or refund the purchase price. Triangle's choice of one of these remedies shall be the Buyer's sole remedy. Triangle will under no circumstances be liable for consequential damages, except insofar as liability is analated by law. Triangle will deliver products at agreed times insofar as it is reasonably able to do so, but it will not be liable for failure to deliver on time when the failure is beyond its reasonable control.

SPCLP249-10/07-003