



Tested and certified by the Water Quality Association according to NSF/ANSI International Standard 61

**COATING DATA**

**DESCRIPTION:**

A two-component, high solids, chemically cured ceramic epoxy coating. Ceramapure® TL70 Ceramic Epoxy is a unique and outstanding barrier coating formulated for the protection of steel and/or concrete immersed in potable water or aggressive chemical environments. Ceramapure™ TL 70 meets the requirements of AWWA D102-06 ICS-1. This product has been certified for cold end use by the Water Quality Association to meet the requirements of NSF/ANSI International Standard 61 for potable water immersion service in tanks 10,000 gallons and greater capacity.

**PERFORMANCE**

**SYSTEM: Two Coats Ceramapure® TL 70 @ 20 mils DFT**

TEST	METHOD/CONDITIONS	DURATION	RESULTS
Distilled Water Immersion Impact Resistance (Direct) Pull Off Adhesion Taber Abrasion	77°F (25°C) ASTM D 2794 ASTM D 4541 ASTM D 4060	1 Year 1 Week 1 Week	No Blisters or Undercutting 120 in/lbs, No Cracking 900 PSI, Average of 4 pulls 0.195 gr. Avg. Loss/ 1,000 Cycles
Freeze/Thaw	ASTM D 3059, Method A		Passed @ 10 Cycles

**LIMITATIONS:**

Do not use for immersion service above 120°F (49°C) or dry heat above 200°F (93°C). Not recommended for immersion in concentrated solutions of mineral acids or organic acids. Not recommended in sewage service.

**SURFACE PREPARATION:**

**Steel (Immersion)**—SSPC-SP 10 Near White Metal Blast achieved with a non-steel granular aggregate and a 3.0 mil surface profile. This product does not require scarifying the surface prior to being recoated with itself if recoated within 30 days. Prior to recoating, remove all surface contaminants. **Steel (Non-Immersion)**—SSPC-SP 6 Commercial Blast. **Concrete**—SSPC-SP 7 Brush Off Blast. New concrete must cure at least 28 days and contain less than 14% moisture prior to painting.

**COVERAGE:**

Theoretical— 1,476 ft² per gallon at 1.0 mil dry film thickness.

**DRY FILM THICKNESS:**

7.0 - 15.0 mils per coat. Multiple coats may be used if necessary.

**WET FILM THICKNESS:**

10.0 – 21.0 mils

## APPLICATION DATA

### BLEND RATIO:

One part Ceramapure® TL70 Ceramic Epoxy Activator to four parts Ceramapure® TL70 Ceramic Epoxy Base by volume. Power agitate until components are thoroughly mixed.

### POTLIFE:

Two hours at 80°F decreasing with higher temperature.

### APPLICATION:

**Airless Spray**—Use .029 tip; 30 mesh filter; 45:1 Pump ratio at 80-100 psi operating air pressure. Remove all filters from the pump. **Roll**—Use lambs wool cover. Additional coats may be required to achieve desired film thickness. **Brush**—Use natural bristle brush. Additional coats may be required to achieve desired film thickness.

### THINNING:

None required. Clean equipment with K-1034 Reducer.

### CLIMATE:

Use this product only if the substrate temperature and ambient air temperature is above 40°F and is expected not to decrease for at least two hours after application. Also, the substrate temperature must be 5°F above the dew point for a period of at least two hours after application to avoid condensation occurring on wet paint.

### DRY TIME:

TO HANDLE—12 hours at 80°F.

TO RECOAT—50°F or higher, 12 hours; 40°F-50°F, overnight.

POTABLE IMMERSION SERVICE—50°F or higher, 7 days with proper ventilation;

40°F-50°F, 14 days with proper ventilation.

**Note:** High film thickness, low temperature and/or poor ventilation will retard dry time.

### PHYSICAL DATA:

VOLUME SOLIDS: 70% ± 2%

SOLIDS BY WEIGHT: 80% ± 2%

WEIGHT PER GALLON: 10.95 ± .2 lbs per gallon (mixed)

VOLATILE ORGANIC CONTENTS:

2.09 lbs/gallon mixed unthinned; 251 grams/liter mixed unthinned

HAZARDOUS AIR POLLUTANTS (HAPS)

0.21 lbs/gallon solids mixed unthinned; 25.2 grams/liter solids mixed unthinned

COLOR: Pool Blue & Tan

### SAFETY DATA:

See individual product label for safety and health data information. Individual Material Safety Data Sheets are available upon request.