



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 minimum 1.5 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.

PRIMER:

Indurazinc MC67

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.