



WATER QUALITY
NSF/ANSI 61 Drinking Water
System Components 26KM
Maximum Surface Area/Volume Ratio: 88cm²/L
Water Contact Temperature: 23°C

COATING DATA

DESCRIPTION:

A two component, high solids, highly cross-linked, rapid and cold cure self-priming epoxy coating. RC-70 is formulated for long term resistance to water, water soluble chemicals and other aggressive environments. Conforms to ANSI/AWWA D102-11 ICS-1, ICS-2, ICS-5, OCS-5 and OCS-6. Certified under NSF/ANSI International 61 for potable water immersion service in tanks of 1,000 gallons or greater capacity. RC-70 Epoxy is lead and chromate free.

USE:

Self priming multi-coat system for steel, ductile iron, or concrete surfaces exposed to immersion in potable or process water, splash, fumes, or spillage of water borne chemicals and exposed to aggressive industrial environments. Ideal for shop or field applications requiring a fast curing, high performance epoxy. RC-70 can be applied and will cure at temperatures as low as 35°F.

COLORS:

Tan, Gray, Red & Aqua White.

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 solutions of mineral acids or organic acids. Epoxies chalk with extended exposure to sunlight.

SURFACE PREPARATION:

Steel (Immersion)—SSPC-SP 10/NACE 2 Near-White Blast Cleaning.

Steel (Non-Immersion)—SSPC-SP 6/NACE 3 Commercial Blast Cleaning.

Ductile Iron—Remove all surface contaminants by abrasive blasting NAPF 500-03-04. Do not coat surfaces previously coated with asphalt.

Concrete—New concrete must cure for at least 28 days. Verify dryness by testing for moisture per “ASTM D4263 Plastic Sheet Method”. Apply to clean, dry and sound concrete substrates that are free of all curing compounds, oils, greases or any other contaminants. All concrete surfaces shall be made free of voids, cracks and other imperfections using Induron EFS 707 Epoxy Surfacer or Induron Mortarchem. Prepare the surface per ICRI 310.2 to achieve surface profile to meet a CSP 3-4.

Recoating—Multicoat systems may require this product to be recoated. This product does not require scarifing the surface prior to being recoated with itself and many other Induron epoxies (See “Coating Systems” listed below). Before recoating, remove all chalk and any other surface contaminants.

COATING SYSTEMS:

NSF/ANSI Standard 61 approved potable water immersion primers:

AquaClean, PE-70 Epoxy, RC-70 Epoxy, TL-70 Ceramic Epoxy, Indurazinc MC67, Indurazinc MC ONE 67.

NSF/ANSI Standard 61 approved potable water immersion topcoats:

AquaClean, PE-70 Epoxy, RC-70 Epoxy, TL-70 Ceramic Epoxy, PermaClean 100 Ceramic Epoxy.

Non-potable water and water borne chemical immersion primers:

AquaClean, PE-70 Epoxy, RC-70 Epoxy, TL-70 Ceramic Epoxy, Perma-Clean II Primer, Indurazinc MC67, Indurazinc MC ONE 67.

Non-potable water and water born chemical immersion topcoats:

AquaClean, PE-70 Epoxy, RC-70 Epoxy, TL-70 Ceramic Epoxy, Perma-Clean II Epoxy, Ruff Stuff 2100 Coal Tar Epoxy, Ceramapure PL-90, PermaSafe 100 Ceramic Epoxy

Non-immersion primers: AquaClean, PE-70 Epoxy, RC-70 Epoxy, TL-70 Ceramic Epoxy, Perma-Clean II Primer, Induramastic 85, Indurazinc MC67, Indurazinc MC ONE 67.

Non-Immersion topcoats: AquaClean, PE-70 Epoxy, RC-70 Epoxy, TL-70 Ceramic Epoxy, Perma-Clean II Epoxy, Aquanaut Enamel, Indurethane 6600 Plus, Permastic Polyurethane, Perma-Gloss Fluorourethane

COVERAGE: Theoretical-1123 ft² per gallon @ 1.0 mil dry.

DRY FILM THICKNESS: 3.0 to 6.0 mils.

WET FILM THICKNESS: 4.2 to 8.6 mils.

APPLICATION DATA

PACKAGING: Five gallon pails and one gallon cans. Order 10 gallon or 2 gallon kits.

BLEND RATIO:

For RC-70 Epoxy mix one part RC-70 Epoxy Base Part A (use either Tan, Gray, Red or Aqua White) to one part RC-70 Epoxy Activator Part B. Power agitate until components are thoroughly mixed.

STORAGE TEMPERATURE:

Minimum 20°F, Maximum 110°F.

SHELF LIFE:

18 months at recommended storage temperature.

APPLICATION:

For best application properties, blended coating temperature should be above 50°F prior to application. **Airless Spray**—Use .015-.017 tip, 60 mesh filter, 30:1 pump ratio at 60-100 psi operating air pressure. **Conventional Spray**—Follow instructions of equipment manufacturer for the application of epoxy paints. **Roll**—Not recommended except for small/touchup areas. Use lambswool cover. Additional coats may be required to achieve desired film thickness. **Brush**—Not recommended except for small/touchup areas. Use natural bristle brush. Additional coats may be required to achieve desired film thickness.

THINNING:

If required, thin from 5% up to 10% with K-1034 Reducer.

CLIMATE:

Use this product only if the substrate temperature and ambient air temperature is above 35°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.

POT LIFE DRY TIME:

TEMPERATURE	POT LIFE	TO HANDLE	TO RECOAT	IMMERSION
35°F	8 hrs	18 hrs	48 hrs-2nd day	14 days
40°F	8 hrs	14 hrs	48 hrs-2nd day	14 days
50°F	6 hrs	10 hrs	12 hrs-overnight	7 days
70°F	2 hrs	6 hrs	6 hrs	7 days
90°F	Do not Use	Do not Use	Do not Use	Do not Use

No maximum recoat time. Curing time varies with surface temperature, air movement, humidity and film thickness. For interior potable water tank ventilation see ANSI/AWWA D102-03 Section 4.6.5.

PHYSICAL DATA:

VOLUME SOLIDS: 70% ± 2%

SOLIDS BY WEIGHT: 84% ± 2

VOLATILE ORGANIC COMPOUNDS:

Mixed unthinned - < 2.2 lbs/gallon; < 264 grams/liter

Mixed thinned 10% - < 2.7 lbs/gallon; < 324 grams/liter

HAZARDOUS AIR POLLUTANTS (HAPS):

Mixed unthinned - 0.26 lbs/gallon solids; 31.19 grams/liter solids

Mixed thinned 10% - 0.28 lbs/gallon solids; 33.58 grams/liter solids

SAFETY DATA:

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