

UT-15 UNDERWATER EPOXY COATING

DESCRIPTION: PICCO Coatings Co., Inc. UT-15 Underwater Epoxy Coating is a solvent free two component epoxy system designed to be applied in underwater and splash zone environments. It chemically displaces water on the surface being coated affecting an excellent bond to the substrate. UT-15 Underwater Epoxy Coating will not emulsify or float away during application. UT-15 Underwater Epoxy Coating is self leveling and cures to a smooth and very hard ceramic-like finish with very low surface tension making it easy to clean, decontaminate.

RECOMMENDED APPLICATIONS: UT-15 Underwater Epoxy Coating is especially suited as a heavy duty protective coating for use in industrial and marine applications. UT-15 is qualified for nuclear Service Level 1 applications, and is excellently suited for heat exchanger tube sheets, offshore oil rigs, dock pilings, concrete reservoirs, cooling towers, sewage treatment areas, and processing plant floors. UT-15 Underwater Epoxy Coating lowers maintenance costs by providing integral repairs and extends the expected service life of equipment and structures. UT-15 Underwater Epoxy Coating provides a long-life, durable waterproof surface on a variety of materials such as metal, wood, concrete, and fiberglass. UT-15 Underwater Epoxy Coating provides excellent resistance to corrosion as well as most acids, solvents, caustics, and oils.

TYPICAL INDUSTRY USES INCLUDE

Nuclear Facilities
Petro Chemical Industries

Offshore Equipment
Power Plants

Reservoirs
Processing Plants

TYPICAL PHYSICAL PROPERTIES:

COLOR:	Off White	V.O.C.:	0 lbs/gal	
COMPONENTS:	Two	RECOMMENDED D.F.T.:	10.0 – 25.0 mils/coat	
MIXING RATIO (BY VOL.):	1:1	DRY TIME:		
WT./GALLON:	10.9 lbs	Curing Temp.	Tack Free	Full Cure
POT LIFE:	65 minutes	90°F	4.5 Hours	18 Hours
VISCOSITY AT 77° F:	Heavy Paint	70°F	8.0 Hours	36 Hours
SHELF LIFE:	2 Years	33°F	2.0 Days	4.0 Days
SOLIDS BY WEIGHT:	100%	THINNING:	Do Not Thin	
SOLIDS BY VOLUME:	100%	APPLICATION METHODS:	Brush, Roll, Trowel	
CHEM. RESISTANCE:	Severe Exposure	FILM THICKNESS:		
THEORETICAL COVERAGE:	160 ft ² /gal @ 10 mil dft	Wet:	10.0 – 25.0 mils per coat	
FLASH POINT:	> 250° F, TCC	Dry:	10.0 – 25.0 mils per coat	
		CLEANING OF EQUIPMENT:	T-21, T-601, or T-42	

PACKAGING:

Part A Resin	Part B Hardener
1-Gallon Kit – 100% Fill (0.50 gal)	1-Gallon Kit – 100% Fill (0.50 gal)
2-Gallon Kit – 100% Fill (1.00 gal)	2-Gallon Kit – 100% Fill (1.00 gal)
10-Gallon Kit – 100% Fill (5.00 gal)	10-Gallon Kit – 100% Fill (5.00 gal)

Recommended storage temperature is 40°F to 110°F .
Store in a cool, dry location away from moisture, humidity, and direct sunlight.

APPLICATION CONDITIONS:

Although UT-15 Underwater Epoxy Coating will eventually cure at 33°F, the normal recommended water or surface temperature should be above 50° F for optimal cure.

SURFACE PREPARATION:

Remove all grease, oil, dirt, dust or other contaminants prior to blasting (abrasive, water).

CORROSIVE SERVICE: SSPC – SP10 Near White Metal Blast Cleaning.

IMMERSION SERVICE: SSPC – SP10 Near White Metal Blast Cleaning.

IMMERSION UNDERWATER APPLIED (REPAIR): SSPC – SP11 Power Tool Cleaning to Bare Metal

CONCRETE SERVICE: Surfaces should be abrasive blasted, water blasted, mechanically abraded and/or acid etched to remove surface laitance and other contaminants. If acid etching is used, the surface should be rinsed with fresh water and allowed to dry before application of the UT-15 Underwater Epoxy Coating.

Note: Concrete must be cured for at least 28 days prior to application of UT-15 Underwater Epoxy Coating. Minimum concrete strength must be 3,000 psi.

RECOAT PREPARATION:

Allow the coating to become tack free prior to recoating. If the coating is allowed to exceed the complete cure period, then mechanically abrade the surface before recoating.

APPLICATION INSTRUCTIONS:

Mix 1 part of Part A Resin to 1 part of Part B Hardener of the UT-15 Underwater Epoxy Coating. Thoroughly mix the two components together for 2-3 minutes. Avoid vigorous mixing to prevent trapping excess air bubbles in the liquid prior to application. May be applied using trowel, brush, roller or apply by hand using rubber gloves. Allow to cure overnight.

PROPERTIES OF CURED SYSTEM:

Compressive Strength (ASTM D-695):	24,600 psi
Tensile Strength (ASTM D-638):	8,950 psi
Tensile Modulus (ASTM D-638):	560,000 psi
Impact Resistance (ASTM D-256, Method A)	0.34 ft-lb/in
Shore “D” Hardness (ASTM D-2240):	72
Bond Strength to Steel (ASTM D-1002):	1,830 psi
Bond Strength to Concrete:	Greater than tensile strength of concrete.

HEALTH AND SAFETY PRECAUTIONS

This bulletin does not accompany the product when sold. For First Aid instructions and Hazard warnings, refer to the Material Safety Data Sheets which are included with each shipment. Picco Coatings Co. Inc. strongly recommends you read and fully understand the handling and safety precautions prior to installation of materials.

DANGER:

Part A Resin Contains Epoxy Resin. Part B Hardener Contains Alkaline Amines.

Causes severe eye and skin burns and irritation. May cause allergic skin and respiratory reaction. Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with eyes, skin, and clothing. Wear protective eye equipment when handling. Part B Hardener contains trace quantities of MDA, a suspected carcinogen, and is therefore listed as an "Extremely Hazardous Substance" by OSHA. Avoid breathing vapor or mist. Keep away from heat, sparks, and flame. Wash thoroughly after handling. Keep container closed.

FIRST AID: IN CASE OF EYE CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN. FOR SKIN CONTACT, FLUSH WITH WATER AND WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION AND CALL A PHYSICIAN.

DISCLAIMER: All technical data and recommendations herein are believed to be reliable to the best of our knowledge. Since PICCO COATINGS CO., INC. has no knowledge or control concerning the purchaser's use of the product, no express warranty is made by PICCO COATINGS CO., INC. or its representatives and dealers with respect to results of any use of this product. No implied warranties, including but not limited to an implied warranty of merchantability, or an implied warranty of fitness for a particular purpose, are made with respect to this product. Neither seller nor manufacturer assumes any liability for personal injury, loss, or damage resulting from the use of this product.

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