



TechniCoat Coil Coating System



TechniCoat is a proprietary epoxy-modified phenolic dip coating. It is the only anti-corrosive coating ever designed and custom engineered specifically for HVAC/R coils. After years of research and 25 years of experience gained in coating almost 1,000,000 coils, Technicoat 10-2™ stands as the state of the art in corrosion control. Total Immersion ensures complete coverage with no significant loss of thermal efficiency.

The 4-step coating system consist of (1) a multi-step cleaning process (2) chemical etch primer, (3) epoxy-modified phenolic, and (4) phenolic sealer.

The result is a hi-density thin-film coating, which is applied to the louvered fins without bridging even at 26 fins per inch spacing. The finished TechniCoat surface is so smooth and free of micro-porosity, provides exceptional sheeting action, which means less fouling, easier cleaning, and prevention of microbiological contaminants.

Thermal efficiency loss consistently tests out at a negligible "under 1%." The longest ASTM B117 salt spray test conducted so far was terminated at 4500 hours with "no fin corrosion or degradation." Uncoated aluminum finned coils are severely corroded after only 500 hours of testing, while copper-to-copper coils were corroded and restricted air flow after 775 hours.

TechniCoat Is A Cost Effective Alternative For Coils In Coastal & Corrosive Environments

TechniCoat Coils Versus Copper-to-Copper Style Coils:

- * A TechniCoat coil is generally 2.25 times less expensive.
- * A Technicoat coil is nearly 3 times lighter than a copper finned coil.
- * A Technicoat coil withstands more hours of exposure/operation that other coil options

Applications To Consider The Use Of TechniCoat Coated Coil Option

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|-----------------------------------|--------------------------|
| * Wastewater Treatment Plants | * Wineries |
| * Gas and Oil Refinery Operations | * Chemical Plants |
| * Battery Manufacturers | * Pulp and Paper Mills |
| * Areas with Sulfur Water | * Seacoast Installations |



TechniCoat Coating Information

TechniCoat 10-2™ Is Resistant To Fumes Of The Following:

acetates - all	citric acid	nitrides - all
acetic acid	coke oven gas	nitrobenzene
acetone	esters-all	nitrogen fertilizers
acetylene	ethers - all	oils - minerals / vegetable - all
acrylonitrile	ethylene oxide	oxalic acid
alcohols - all	fatty acids	oxygen
aldehyders - all	fluosilicic acid	phenol
alum	formaldehyde	phosphoric acid
amines - all	formic acid	picric acid
ammonia	freon	propane
ammonium hydroxide	fuels - all	salicylic acid
ammonium nitrate	gases - inert	silicic acid
aniline	gases - manufactured	steam vapor
benzoic acid	gases - natural	stearic acid
benzol	glycerine	sulfate liquors
boric acid	glycols - all	sulfonic acid
brine	hydrocarbons - all	sulfur dioxide
butane	hydrochloric - acid	sulfuric acid
carbolic acid	hydrogen	sulfurous acid
carbonates - all	hydrogen sulfide	surfactants
carbon dioxide	iodides - all	tannic acid
carbonic acid	ketones - all	tetraethyl lead
carbon monoxide	lacquers	toluene
carbon tetrachloride	lactic acid	trisodium phosphate
chlorides - all	maleic acid	urea
chlorinated solvents - all	malic acid	saltwater
chlorine - less than 100 ppm	methanol	water
chloroform	methylene chloride	xylene
chromic acid	naphthalene	
	nitric acid (dilute)	

The information presented about is based on both research and experience and are believed to be entirely accurate. However, no guarantee of their accuracy can be made for obvious reasons and no responsibility can be assumed by TechniCoat, Inc., and/or Bard Manufacturing Company.

For Technicoat coil option availability and pricing information please contact the Bard Distributor for your area.