

Trico Bond SD™

Severe Duty Epoxy Powder Coating



PHYSICAL PROPERTIES *

Application	Test	Trico Bond SD™
Dry Film Thickness	Average DFT	4.0-10.0 mils interior 3.5-5.0 mils exterior
Limiting Temperature	Dry Heat	275 F (application dependent)
	Immersed	250 F (product dependent)
Corrosion Resistance	Salt Spray - ASTM B117	7000+ Hours
	Cyclic Corrosion - ASTM D5894	7 Cycles
Impact Resistance	ASTM D2794	Pass - 160 in-lbs direct/reverse impact
pH Range		3-12 (product dependent)
Abrasion Resistance	Falling Sand - ASTM D968	Pass 212 liters/mil
	Adhesion - ASTM D3359	5B Pass 100%
Surface Gouging Resistance	ASTM D3359	5B Pass 100%
Hardness	ASTM D3363	3H
Chemical Immersion	NaOH; H ₂ SO ₄	40% NaOH; 40% H ₂ SO ₄ - 6 mos @ 70F
Color	Sahara Gold (Standard)	Other colors available

TRICO BOND SD™ CHEMICAL RESISTANCE

Liquid		Dry	
10% Aluminum Sulfate	Deionized Water	ABS Pellets	Hydrated Lime
32% Ammonium Nitrate	Demineralized Water	Ammonium Nitrate	Kaolin Clay
30% Ammonium Sulfate	Distilled Water	Bauxite	Perlite
20% Ferric Chloride	Potable Water	Bentonite	Polyethylene Pellets
40% Sodium Hydroxide	Fresh Water	Blood (Dried)	Polyvinyl Chloride
15% Urea	Municipal Wastewater	Bonemeal	Sodium Bicarbonate
Bleach	Salt Water	Boric Acid	Soybean Meal
Ammonium Hydroxide	Calcium Chloride	Calcium Carbonate	Starch
#1,2,4,5 & 6 Fuel Oils	Fatty Acids	Calcium Chloride	Terephthalic Acid
Sweet & Sour Crude Oil	Manure	Carbon Black	Urea
Frac/Produced Water	Sewage	Flour	Wood Chips

List of other suitable product applications available. The table above applies to Trico Bond SD™ coatings.
Tank product lines might have other limitations, based upon their configurations.

WHAT'S IN YOUR COATING?

All quality coating systems are based on superior resins and pigments. CST Storage invested seven years of R&D and field trials to develop the modified epoxy powder system, Trico Bond EP®, applied to all liquid and dry bulk bolted tanks since 2003. Only lead-free, chrome-free pigments are utilized. Likewise, CST Storage takes the extra step to apply a performance urethane to all tank exteriors. UV-inhibiting clear urethane greatly extends gloss and color retention properties. It delivers superior UV performance versus powder on powder coatings.

The Trico Bond SD™ coating is another advancement by CST for high temp epoxy coating applications where longer life cycles are required.

DESIGN STANDARDS

National and International Standards Trico Bond SD™ coating complies with:

- AWWA D103 Factory-Coated Bolted Steel Tanks for Water Storage
- FDA

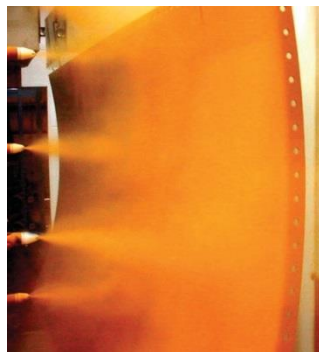
COATING PROCESS

Coating performance is highly dependent on proper surface preparation. Good coating systems fail prematurely due to inadequate surface preparation, high dew points and low temperature during application. CST Storage applies all coatings in an ISO 9001 certified facility, under controlled environmental conditions using its proprietary OptiBond® coating process to deliver the finest epoxy coating available in the storage tank industry.

OPTIBOND® COATING APPLICATION



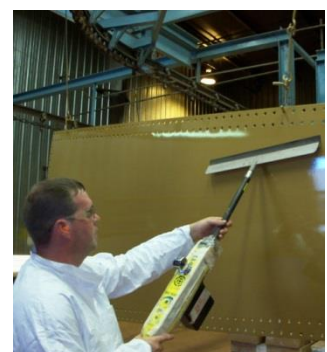
Surface Preparation



Coating Application



Heat Curing



Holiday Testing

QUALITY ASSURANCE

Final Coating Thickness – Electronic DFT gage

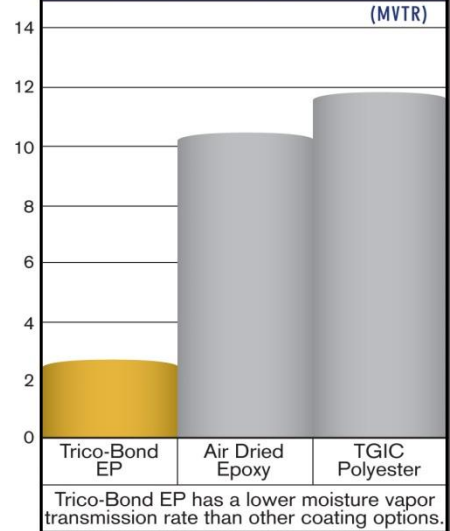
Coating Voids (Holidays) – 1,100V Dry High Voltage
ASTM D5162 Method B

Color – Colorimeter Test

SURFACE PREPARATION

SP10	Near-White Metal Blast	95% White Metal
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LOWER MOISTURE VAPOR TRANSMISSION RATE



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