

THE NEXT GENERATION EPOXY COATING FOR TECSTORE® TANKS



Alkaline Wash

All steel panels are cleaned with an alkaline wash.



Mechanical Blast

A controlled blast with steel grit provides a minimum finish of SSPC-SP10 (SA 2.5) near-white blast with 50-75 microns profile.



Powder Coating

Kuo-Lon is applied to the interior of the panels at 125 microns average DFT. The exterior is coated to 75 microns minimum DFT. Higher build rates are available.



Initial Cure

Partial cure of coatings at 165°C.



Top Coat

Application of aliphatic polyurethane top coat at 35 microns average DFT to the exterior of the panels on top of the Kuo-Lon powder.



Final Cure

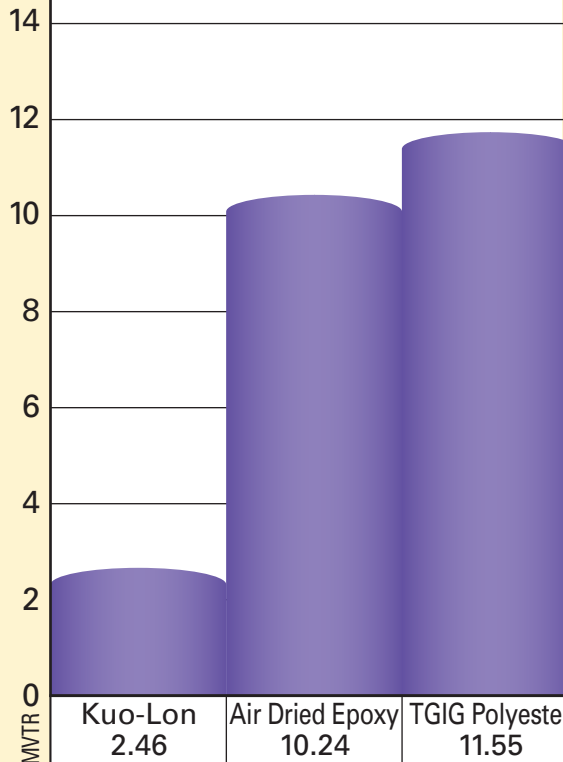
Final cure of coating system at 200°C.

CHEMICAL RESISTANCE

Kuo-Lon, Typical Liquid Storage Applications Include

sodium chloride	deionised water	potable water	manure/sewage
sodium hydroxide	demineralised water	water (80°C)	xylene
wastewater	distilled water	salt water	crude oil

Moisture Vapor Transmission Rate (MVTR)



KUO-LON is a new generation thermosetting epoxy powder coating that combines outstanding chemical resistance with exceptional physical properties in a thermally cured tank lining system. It is formulated specifically for service as a tank coating for holding such products as potable water, wastewater, sewage, brines and chemicals where its inertness and corrosion resistance are a clear advantage over other paint coatings.

Next Generation Modified Epoxy Powder Coating

*Note:
The lower the MVTR the better*



Coating Standards and Approvals

National and International Standards our Kuo-Lon complies with:

- AWWA D 103 Factory-Coated Bolted Steel Tanks for Water Storage
- NSF 61 - Drinking Water System Components
- FDA

Physical Properties

Application	Factory-applied, thermally cured	
Dry Film Thickness	Average DFT	125 microns interior / 75 microns exterior
Limiting Temperature	Dry Heat	90°C
	Immersed	60°C-90°C (Depends on stored product)
Corrosion Resistance	Salt Spray - ASTM B117	Pass 9000 hours
	Cyclic Corrosion - ASTM D5894	Pass 7 Cycles
Impact Resistance	ASTM D2794	160 in-lbs direct / 160 in-lbs reverse
Abrasion Resistance	Falling Sand - ASTM D968	227 L/mil
Hardness	ASTM D3363	H
General pH Range	3-12*	
Chemical Immersion	10% Sodium Hydroxide at 180°C	Pass 9000 hours
	10% Sulphuric Acid at 75°C	Pass 9000 hours
Holiday Test	Passes 67 volts	
Colour	Interior	Sahara Gold
	Exterior	Optional top coat - various colours

* This is a general limit. Specific immersants may have higher limits.



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