

WaterGuard LE

Solvent Free Epoxy Protective Lining

WaterGuard™ LE is a 100 percent solids, two-component, solvent free, high-build epoxy lining system used to provide corrosion protection for the internals of steel pipes. Various material options are available for applications including potable and field water, process water, sewage, salt water, wastewater, crude oil and white oils.

Excellent Performance Properties

- WaterGuard™ LE cures to form a hard and glossy surface film with excellent resistance to a wide range of aqueous chemicals including potable water, effluents, raw water, process water, sewage, crude oils and white oils
- The product has excellent adhesion to steel surfaces



Engineered Solutions

A variety of coatings can be selected and evaluated for specific applications and operating conditions.

Environmentally Safe

With a solvent-free and zero VOC formulation, WaterGuard™ LE is designed to meet strict health, safety and environmental standards.

Global Availability

- The product can be applied in a single plant, multiple plants or a mobilized site to improve project logistics
- High capacity within the Shawcpr plant network allows the client to benefit from single source advantages, providing more cost effective management of pipe coating needs

CAPABILITY/PROPERTY	UNIT VALUE	TEST DESCRIPTION	RESULTS
Adhesion	MPa	ASTM D 4541	15 min.
Adhesion		ASTM D 3359 (Method A, cross cut)	4A min.
Hardness	Pencil	ASTM D 3363	5H min.

CAPABILITY/PROPERTY	UNIT VALUE	TEST DESCRIPTION	RESULTS
Flexibility (Conical mandrel)	180° bend over 102 mm mandrel	ASTM D 522	No flaking, cracking or adhesion loss
Abrasion resistance	mg loss per 1000 rev	ASTM D 4060 CS 17 wheel, 1 kg load	100 max
Cathodic disbondment @ 20± 3°C, 30 days @ max. rated service temp± 3°C, 30 days	mm mm	ASTM G8 ASTM G95	9.5 max. 20 max.
Immersion resistance De-ionized water 1 wt% Sodium hydroxide 1 wt% Sulphuric acid	No blistering, peeling or disbondment	AWWA C210-07; partial immersion for 30 days @ 24°C	pass pass pass

Values shown are typical and may vary from plant to plant. Consult a Shawcor technical advisor for any special requirements.

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