



SIP Industries
Quality Manufacturer Since 1960

Certificate of Compliance : Ceramic Epoxy (Protecto 401™)

Date

SIP certifies that our Ceramic Epoxy (Protecto 401™) adhere to the Wastewater industry standards. Protecto 401™ lining is coated and applied to manufacturers' requirements. Please refer to our website www.sipindustries.com for up to date product data and technical advisories.

Material : Protecto 401™ is an Amine cured epoxy containing at least 20% by volume ceramic quartz pigment (Ceramic Epoxy) used for sewer service. Not recommended for potable water applications.

Film Properties :

Test	Method	Conditions	Result
Permeability	ASTM E-96-66, Procedure A	30 Days	0.00
Salt Spray	ASTM B117 (Measured) ASTM D714 (Rated)	2 years	0.0 Undercutting
20% Sulfuric Acid Immersion	ASTM D714-87	2 years	No Effect
25% Sodium Hydroxide Immersion	ASTM D714-87	2 years at 140°F	No Effect
Distilled Water Immersion	ASTM D714-87	2 years at 160°F	No Effect
Tap Water Immersion	ASTM D714-87	2 years at 120°F	0.0 Undercutting
Abrasion Resistance	European Standard EN 598: 1994 Section 7.8	One million cycles on a ± 22.5° sliding aggregate slurry abrasion tester using a sharp natural siliceous gravel with a particle size between 2mm and 10 mm.	≤ 3 mils Loss
Cathodic Disbondment	ASTM G95	1.5 volts at 77°F for 30 days	≤ 0.5 mm Undercutting
Resistance to Bacteria	ASTM G-22 90	7 Days at 30°C on a minimum of 4 panels	Limited only to trace amounts of Bacteria

Sincerely,

Roger Johnson
Director of Technical Services
rjohnson@sipindustries.com

Project Name	<input type="text"/>
Project Location	<input type="text"/>
Distributor	<input type="text"/>
Contractor	<input type="text"/>



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