Product Data Sheet PHOEPOX® 4402

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November 2015



Phoepox® 4402

is a fusion bonded epoxy powder that is designed for the internal corrosion protection of line pipes and fittings from seawater, saline water and industrial water. Phoepox® 4402 can be either applied together with a phenolic primer or as a standalone coating.

				Typical Value	Test Method / Device
POWDER PROPERTIES	GEL TIME	at 200°C		60-85 sec	ISO 8130-6
	THERMAL PROPERTY	Tg1		60 ± 5°C	ISO 21809-2
		Tg2		101 ± 5 °C	
		ΔH		30-70 J/g	
	DENSITY			$1.5 \pm 0.1 \text{ g/cm}^3$	Gas Pycnometer
	PARTICLE SIZE			$99.8\% < 160 \ \mu m$	Laser Scattering
	MOISTURE CONTENT			≤ 0.5%	CSA Z245.20-06
	COLOR			Grey	
PHYSICAL TESTS	CATHODIC DISBONDING	*	1-3 mm at -3.5VDC 2-5 mm at -1.5 VDC		CSA Z245.20-06
	HOT WATER SOAK	HOT WATER SOAK Rating 1 at 75°C		24 hours	CSA Z245.20-06
	FLEXIBILITY	FLEXIBILITY Pass, at 3°, -30°			CSA Z245.20-06
	SALT SPRAY TEST	SALT SPRAY TEST No blistering at 5		°C, 5 months	ASTM B117



Engineered Materials for a Modern World.

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IMPACT ≥ 5 J CSA Z245.20-06

ABRASION (TABER) $\leq 50 \text{ mg}$ ASTM D4060, at CS 17

wheel, 1000 cycles

STORAGE STABILITY 12 months from production date in

≤ 23°C and ≤ 65% relative humidity. Cooler temperatures and lower humidity are recommended.

APPLICATION DATA

SUBSTRATE Mild steel

SURFACE PREPARATION Surface must be free from contamination and

blasted as defined by Swedish Sa 21/2

SURFACE ROUGHNESS 45-100 µm

RECOMMENDED 200-300 μm **FILM THICKNESS**

APPLICATION 190-218°C **TEMPERATURE**

POST CURE 220°C, 12 min **CONDITIONS**

^{*} The performance will be affected by surface preparation and curing condition.