

Product Data Sheet

PHOEPOX® 5514 LG

1/2

Maj 2021



Phoepox® 5514 LG

is an enhanced fusion bonded epoxy powder that is designed to protect FBE coated pipe from mechanical damage during handling, installation, back fill and directional drilling. PHOEPOX 5514 LG is designed as the second layer of a dual layer coating system and is applied at a recommended average thickness of 400 microns. Phoepox® 5514 LG is suitable for standard service temperatures.

			Typical Value	Test Method / Device
POWDER PROPERTIES	GEL TIME	at 200°C	35-45 seconds	ISO 8130-6
	THERMAL PROPERTY	Tg1	60 ± 5°C	ISO 21809-2
		Tg2	101 ± 5°C	ISO 21809-2
		ΔH	40-80 J/g	ISO 21809-2
	DENSITY		1.55 ± 0.1 g/cm ³	Gas Pycnometer
	PARTICLE SIZE		99.8% < 250 μm	Laser Scattering
	MOISTURE CONTENT		≤ 0.5%	CSA Z245.20-14
COLOR		Red-Brown or Green		
PHYSICAL TESTS	CATHODIC DISBONDING *	1-3 mm at -3.5 VDC, 65°C, 24 hours 2-5 mm at -1.5 VDC, 20°C, 28 days		CSA Z245.20-14
	ADHESION *	Rating 1 at 75°C, 24 hours		CSA Z245.20-14
	FLEXIBILITY *	Pass, at 3°, -30°C		CSA Z245.20-14
	WATER RESISTANCE *	No blistering at 38°C, 15 weeks No blistering at 90°C, 5 weeks		ASTM D870
	GOUGE TEST	Pass		R33 TC Burr, 50 Kg load



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2/2



STORAGE STABILITY 12 months from production date in $\leq 23^{\circ}\text{C}$ and $\leq 65\%$ relative humidity. Cooler temperatures and lower humidity are recommended.

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

APPLICATION DATA

SUBSTRATE	FBE coated steel
RECOMMENDED FILM THICKNESS	200-500 μm
APPLICATION TEMPERATURE	215-240 $^{\circ}\text{C}$
TIME TO QUENCH	≥ 90 sec at 225 $^{\circ}\text{C}$ metal temperature