

# Product Data Sheet

## PHOEPOX® 5514 XLG

1/2

Maj 2021



### Phoepox® 5514 XLG

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 XLG 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 XLG is suitable for standard service temperatures.

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



◀ **Engineered Materials** for a Modern World.

# Product Data Sheet

## PHOEPOX® 5514 XLG

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

<b>SUBSTRATE</b>	FBE coated steel
<b>RECOMMENDED FILM THICKNESS</b>	200-500 $\mu\text{m}$
<b>APPLICATION TEMPERATURE</b>	215-240 $^{\circ}\text{C}$
<b>TIME TO QUENCH</b>	$\geq 110$ sec at 225 $^{\circ}\text{C}$ metal temperature