

# Product Data Sheet

## PHOEPOX® 5514

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Maj 2021



### Phoepox® 5514

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 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 is suitable for standard service temperatures.

			Typical Value	Test Method / Device	
<b>POWDER PROPERTIES</b>	<b>GEL TIME</b>	at 200°C	20-30 sec	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>			1.55 ± 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 2-5 mm at -1.5 VDC, 20°C, 28 days		CSA Z245.20-14	
	<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	



◀ corrosion protection that stays.

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<b>WATER RESISTANCE *</b>	No blistering at 38°C, 15 weeks No blistering at 90°C, 5 weeks	ASTM D870
<b>GOUGE TEST</b>	Pass	R33 TC Burr, 50 Kg load
<b>STORAGE STABILITY</b>	12 months from production date in ≤ 23°C and ≤ 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 µm
<b>APPLICATION TEMPERATURE</b>	215-240°C
<b>TIME TO QUENCH</b>	≥ 90 sec at 225°C metal temperature



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