

# Product Data Sheet

## PHOEPOX® 5511

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April 2018



### Phoepox® 5511

is a fusion bonded epoxy powder that is designed to protect FBE-coated pipe from mechanical damage during handling, installation, back fill and directional drilling. Phoepox® 5511 is typically used in combination with a stand-alone FBE such as Phoepox® 3305.

			Typical Value	Test Method / Device
<b>POWDER PROPERTIES</b>	<b>GEL TIME</b>	at 180 °C	35-50 sec	ISO 8130-6
		at 200 °C	20-30 sec	ISO 8130-6
	<b>THERMAL PROPERTY</b>	Tg1	60 ± 5° C	ISO 21809-2
		Tg2	104 ± 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 Z245.20-06
	<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				
<b>ADHESION*</b>		Rating 1 at 75°C, 24 hours		CSA Z245.20-06
<b>FLEXIBILITY*</b>		Pass, at 3°, -30°C		CSA Z245.20-06
<b>IMPACT</b>	> 5J at -30°C		CSA Z245.20-06	



◀ 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

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### APPLICATION DATA

<b>RECOMMENDED FILM THICKNESS</b>	300 - 600 µm
<b>APPLICATION TEMPERATURE</b>	215 - 235 °C
<b>TIME TO QUENCH</b>	≥ 90 sec at 225 °C metal temperature