

# Product Data Sheet

## PHOEPOX® 5112

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Januar 2018



### Phoepox® 5112

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. Used in combination with a stand-alone FBE such as Phoepox® 6112, Phoepox® 5112 is suitable for operating temperatures up to 120°C.

			Typical Value	Test Method / Device
<b>POWDER PROPERTIES</b>	<b>GEL TIME</b>	at 180°C	35-47 seconds	ISO 8130-6
		at 200°C	17-27 seconds	ISO 8130-6
	<b>THERMAL PROPERTY</b>	Tg1	53 ± 5°C	ISO 21809-2
		Tg2	121 ± 5°C	ISO 21809-2
		ΔH	80 -110 J/g	ISO 21809-2
	<b>DENSITY</b>		1.5 ± 0.05 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>		Yellow		
<b>PHYSICAL TESTS</b>	<b>CATHODIC DISBONDING *</b> on Phoepox 6112	2-3 mm at -3.5 VDC, 65°C, 24 hours		CSA Z245.20-06
		2-5 mm at -1.5 VDC, 20°C, 28 days		CSA Z245.20-06
	<b>ADHESION *</b>	Rating 1 or 2 at 75°C, 24 hours		CSA Z245.20-06
	<b>FLEXIBILITY *</b>	Pass, at 3° PPD, 0°C		CSA Z245.20-06
<b>GOUGE TEST</b>	Pass		R33 TC Burr, 50 kg load	



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<b>CROSS SECTION POROSITY *</b>	Rating 2	CSA Z245.20-06
<b>INTERFACE POROSITY</b>	Rating 2-3	CSA Z245.20-06
<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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<b>APPLICATION DATA</b>	<b>RECOMMENDED FILM THICKNESS IN TOP LAYER</b>	300-600 µm
	<b>APPLICATION TEMPERATURE</b>	230-245°C
	<b>TIME TO QUENCH IN DUAL LAYER</b>	≥ 90 second at 230°C metal temperature