

Product Data Sheet

PHOEPOX® 5512

1/2

December 2021



Phoepox® 5512

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. Used in combination with a stand-alone FBE such as Phoepox® 6612, Phoepox® 5512 is suitable for operating temperatures up to 120°C.

| | | | Typical Value | Test Method / Device |
|--------------------------|---|------------------------------------|------------------------------|----------------------|
| POWDER PROPERTIES | GEL TIME | at 180°C | 35-47 seconds | ISO 8130-6 |
| | | at 200°C | 17-27 seconds | ISO 8130-6 |
| | THERMAL PROPERTY | Tg1 | 53 ± 5°C | ISO 21809-2 |
| | | Tg2 | 121 ± 5°C | ISO 21809-2 |
| | | ΔH | 80 -110 J/g | ISO 21809-2 |
| | DENSITY | | 1.5 ± 0.05 g/cm ³ | Gas Pycnometer |
| | PARTICLE SIZE | | 99.8% < 250 μm | Laser Scattering |
| MOISTURE CONTENT | | ≤ 0.5% | CSA Z245.20-06 | |
| COLOR | | Yellow | | |
| PHYSICAL TESTS | CATHODIC DISBONDING * on Phoepox 6612 | 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 |
| | ADHESION * | Rating 1 or 2 at 75°C, 24 hours | | CSA Z245.20-06 |
| | FLEXIBILITY * | Pass, at 3° PPD, 0°C | | CSA Z245.20-06 |
| GOUGE TEST | Pass | | R33 TC Burr, 50 kg load | |



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

Product Data Sheet

PHOEPOX® 5512

2/2



| | | |
|---------------------------------|--|----------------|
| CROSS SECTION POROSITY * | Rating 2 | CSA Z245.20-06 |
| INTERFACE POROSITY | Rating 1-2 | CSA Z245.20-06 |
| STORAGE STABILITY | 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 | RECOMMENDED FILM THICKNESS IN TOP LAYER | 300-600 µm |
| | APPLICATION TEMPERATURE | 230-245°C |
| | TIME TO QUENCH IN DUAL LAYER | ≥ 90 second at 230°C metal temperature |