



CERAM-KOTE

PCF

**Freecom's
critical service
pipe coating formula.**

Generic Type Ceramic
Novalac-Epoxy
Color Black
Temperature
Up to 225°F (107°C) depending on
Service environment*. Consult Freecom's
Technical Representative.

Applied Thickness
8-12 mils (200-300 microns) DFT

Primary Applications
Downhole tubing and casing, critical drill pipe
service

Recommended Services
Oil / Water / Gas Production
Brine Injection / Disposal / Rod-pumping wells**

*As corrosive gas content increases, operating temperature
decreases. Please consult technical representative when
corrosive gases are present.
**Rod-guides recommended

Temperature	Pressure	Test Conditions	Time Period
200°F (93°C)	8,000 psi	8% NaCl in Tap Water/Toluene/Kerosene @ 1:1 15% Carbon Dioxide Gas 85% Methane Gas	18 hours
300°F (149°C)	5,000 psi	Synthetic Seawater 50/50 Kerosene/Toluene 100% Methane Gas	24 hours
194°F (90°C)	5,000 psi	Synthetic Seawater 50/50 Kerosene/Toluene Methane Gas	24 hours
140°F (60°C)	750 psi	5% NaCl, 0.5% acetic acid in Tap Water 6% H ₂ S, 4% CO ₂ , 90% CH ₄	720 hours
140°F (60°C)	600 psi	1% NaCl/Distilled Water Toluene/Kerosene @ 1:1 1% Hydrogen Sulfide 1% Carbon Dioxide Gas 2% Compressed Air 95% Methane Gas	96 hours
122°F (50°C)	5,000 psi	Brine Water (NACE Standard) 100% Nitrogen	5 one hour cycles

CeRam-Kote PCF is a thin-film, spray applied ceramic epoxy coating engineered to provide excellent chemical resistance and corrosion protection to Oil Country Tubular Goods. CeRam-Kote PCF is a highly modified novalac epoxy resin system that has been heavily loaded with a unique package of ceramic particles enhancing its ability to perform well in a variety of aggressive environments. The formula is highly cross-linked to provide chemical resistance.

Acidizing Fluids

If well fluids are not hot and stimulation fluids are charged through the coated tubing in a short period of time, there is generally little effect if the fluids are flushed completely through the tubulars. However, some organic acids and solvents may have a detrimental effect on certain organic coating systems, especially as temperatures increase. If stimulation fluids are left in the tubing, they can reach formation temperature and cause accelerated attack on the coating. A Freecom Technical Representative should be consulted when acidizing is contemplated.



Only licensed CeRam-Kote pipe coating facilities are authorized to apply CeRam-Kote PCF for the I.D. coating of Oil Country Tubular Goods.

FREECOM, INC.

P.O. BOX 2119, BIG SPRING, TEXAS, USA 79721
432-263-8497 • 800-346-4299 • 432-263-5269 FAX
www.ceram-kote.com • E-mail: freecom@ceram-kote.com