

CERAM-KOTE 54®

**TZS**

**Freecom's  
abrasion resistant  
pipe coating formula.**

**Generic Type** Liquid Ceramic Epoxy

**Color** Grey

**Temperature:** Up to 150°F (66°C),  
depending on service environment\*

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

**Primary Applications**  
Sucker rods, Internal and External  
coating, Blast joints, Drill pipe, Drilling  
risers, Tubing, Rod pumping wells\*\*

\*\*Rod-guides recommended

\* **Temperature** (dependent on service environment)

Application	OperatingTemp.	Conditions
Internal and External Coating of tubing	150°F (66°C)	depending on service environment
Sucker Rods	150°F (66°C)	depending on service environment
Drilling Riser Pipe(Choke & Kill Line and Mud Boost Line)	250°F (121°C)	while circulating
Blast Joints	150°F (66°C)	not applicable
Drill Pipe	450°F (232°C)	while circulating

CeRam-Kote 54® TZS is a thin-film, spray applied ceramic epoxy coating engineered primarily to provide external abrasion resistance and corrosion protection. CeRam-Kote 54® TZS is a highly modified 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 abrasive environments.

#### **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.



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Only licensed CeRam-Kote pipe coating facilities are authorized to apply CeRam-Kote 54® TZS for the I.D. coating of applications.