

ARMOR XS protective coating

Extend ESP system pump life in harsh conditions

Features and benefits

- Excellent chemistry for oil and gas downhole environments (abrasive and corrosive)
- Extends pump life five times longer
- Application temperature: maximum 482°F (250°C)
- Coating hardness: average 1,400 to 1,500 HV
- Uniform thickness control (± 0.0005 in. [0.0127 mm]) with dense and consistent microstructure
- Excellent adhesion strength to substrate
- Smooth surface finish
- Entire stage coated

The **ARMOR™ XS protective coating** is an extremely resilient coating designed to protect electrical submersible pumping (ESP) stages used in corrosive and abrasive conditions with sand or solids—enabling longer pump life.

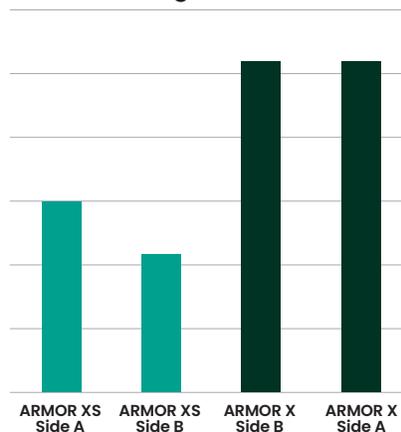
This innovative coating is the result of a collaboration between the GE Global Research Center and the artificial lift team at Baker Hughes.

An advanced pump stage coating has been developed to meet the increasingly difficult conditions found

in unconventional sandy wells. This advanced pump stage coating offers significant benefits with respect to corrosion, abrasion, and the run life of pumps over both the standard material stage and stages that use existing coatings. The coating has been chemically formulated specifically for oil and gas downhole well environments. The coating structure has been designed for strength, and hard additives were incorporated for superior wear resistance.



Abrasion resistant weight loss



Corrosion rate
NACE TMO177, 10% H₂S

