Giant Coatings Ltd. – 780-466-5600 – Jschmidt@giantcoatings.com –
www.giantcoatings.com

GIANT COATINGS – POLYMER COATING
FluoroPro40

Giant Coatings offers an excellent Polymer Coating option for down hole and completion equipment exposed in harsh chemical environments.

The main advantages of our Polymer Coating is its corrosion resistance in water injection, water producing and chloride or disposal wells and for its non-stick/high release properties. The spray-on application of polymer coatings is cured into a thin barrier coating that provides excellent resistance against H2S, C02, Chlorides, and deposition.

- Polymer Coatings resistance to corrosion and particle build-up improves equipment performance
- Polymer Coatings are typically applied at a thickness between 0.00125" to 0.0025"
- Coated layer is entirely built up on top of the original substrate
- Polymer binder is very durable against corrosive gasses.
- Recommended in corrosive and chloride applications, water injection/producing and disposal wells.
- Non-stick properties allow for high release of asphaltenes, scale build up, Sulphur and protection against galling.
- Operating temperature rating of -40°F (-40°C) to +400°F (+205°C)

Typical Applications

- Tubular Products – Pup Joints, Collars, Re-Entry Guides, etc.
- Fracturing Systems
- Completion Packers
- Tubing Anchors
- No-Turn Anchors
- Profile Nipples
- Slick Joints
- Expansion Joints

PERFORMANCE TEST CHART - POLYMER VS. VARIOUS CHEMICALS

Chemicals	Concentration %	Hours	Effect of coating function	Chemicals	Concentration %	Hours	Effect of coating function
Water				**Solvents**			
Deionized - Boiling	100	1000	None	Acetone	100	1500	None
Salt (Immersed)	30	4000	None	Benzene	100	1500	None
Salt (Spray)	5	1000	None	DMAC	100	1500	None
Tap - 250F	100	24	None	Ethanol	100	1500	None
at 10,000 psi				Flourocarbons (12,22,113)	100	1000	None
Acids				M.E.K.	100	120	None
Hydrochloric	36	24	None	Methanol	100	1500	None
Hydrochloric	15	150	Slight	Methylene Chloride	100	1500	None
Hydrochloric	2 pH	300	None	Perchlorethiene	100	1500	None
Hydrochloric (125 F)	2 pH	300	None	Phenol	5	120	None
Sulfuric	25	1500	None	Toluene	100	120	None
Nitric	35	24	None	Xylene	100	1500	None
Picric	Saturated	120	None	**Other Fluids**			
Base				Skydrol (Hydraulic Fluid)	100	1500	None
Caustic	2	24	None	JP-4 (Jet Fuel)	100	1500	None
Caustic	100	336	Slight	Break Fluid (auto)	100	1500	None
Caustic	12.5 pH	150	Slight	H2O + gas @ 250F @2,000 psi	79% CH4, 6% CO2, 15% H2S	24	None
Caustic	9.5 pH	300	None				
Caustic (125 F)	9.5 pH	300	Slight				