PROPPANT™



PureChem® Services

Fracturing & Completions

PC-PropCure™ On-The-Fly Instant Bond Resin Coating

Keeping Fractures Propped Open for Higher Production and Less Downtime

What is PC-PropCure?

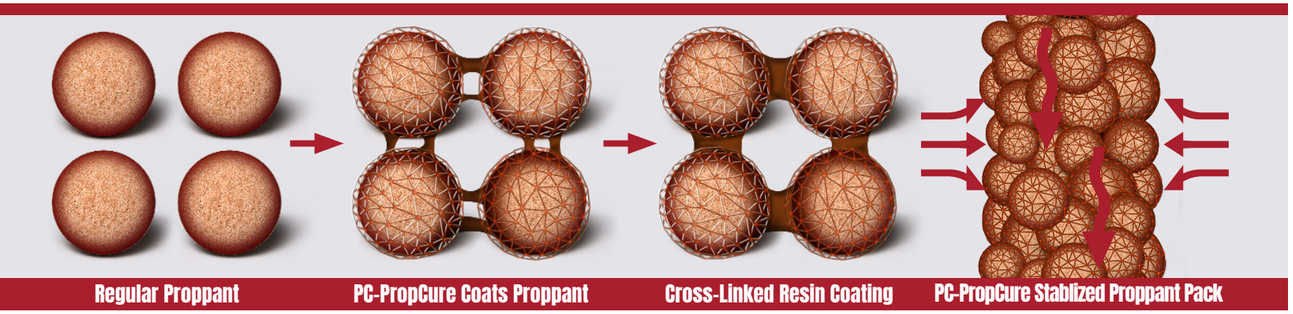
PC-PropCure is a revolutionary, easy-to-use, bio-based two-part liquid additive that coats frac sand on-the-fly, enhancing production by preventing sand flowback, improving conductivity, and increasing well productivity, all with minimal spray on equipment. PC-PropCure transforms standard frac sand into a high performance solution that maintains fracture integrity.

Upfront Treatment Stops Sand Flowback in its Tracks

PC-PropCure uses advanced curable resin technology to create a cross-linked coating on proppant grains, transforming standard frac sand into a highly conductive, stable proppant pack that keeps fractures open and prevents sand migration into the wellbore.

The Science Behind Grain-to-Grain Bonding

PC-PropCure enhances standard frac sand by creating a curable resin coating that chemically modifies the surface, enabling strong grain-to-grain bonding. This bonding stabilizes the proppant pack, preventing sand movement, maintaining fracture geometry, and ensuring long-term conductivity for improved well performance. This process helps maintain fracture geometry, preventing embedment and proppant crushing, while also ensuring resistance against stress cycling to protect conductivity under fluctuating well conditions. By creating a unified and conductive proppant pack, PC-PropCure enhances permeability, ultimately improving production and extending well performance.



SEAMLESS ON-THE-FLY INTEGRATION

Universal Compatibility
Works with all mesh sizes and sand types, including standard and Northern White sand.

Simple Inline Mixing
Easily connects to the blender tub via a static mixer.

Instant Coating
Bonds to silica-based proppants within seconds for rapid application.

Flexible Application Rates
Typically dosed at 1.0% to 3.0% by weight of sand.

Adaptable Pumping Ratios
Pumping ratios can be adjusted as needed based on specific job requirements.

Unlock Better Flowrates and Lower OPEX

Sand production is one of the most costly challenges faced by operators, leading to expensive downtime for cleanouts, equipment repairs, and lost production. PC-PropCure is engineered to combat these issues by helping prevent proppant flowback and allowing for less well choking, and higher initial productions rates. PC-PropCure delivers proven performance benefits that enhance well productivity and reduce operational costs.

DID YOU KNOW?

Just 5% fines can reduce flow capacity by 60% (Coulter & Wells, 1972)

Enhanced Conductivity – Grain-to-grain bonding prevents fines migration, improving well productivity.

Superior compressive strength forming a consolidated proppant pack under 1,000 psi testing.

Higher Flowrates achieve up to **1,300x higher critical flowrates,** with third-party testing confirming **19x higher critical flow rates compared to uncoated sand.**

Thermal Stability Up to 400°F (204°C), ensuring effectiveness across a wide range of bottom-hole temperatures.

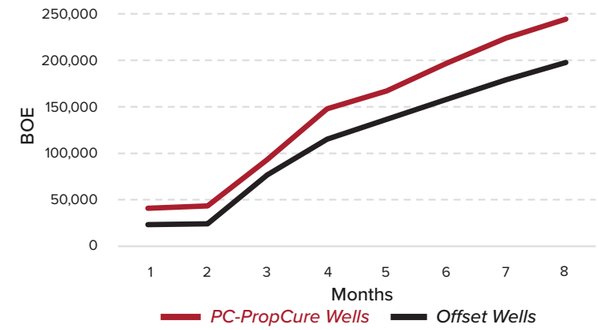
40% reduction in generated proppant fines compared to untreated frac sand.

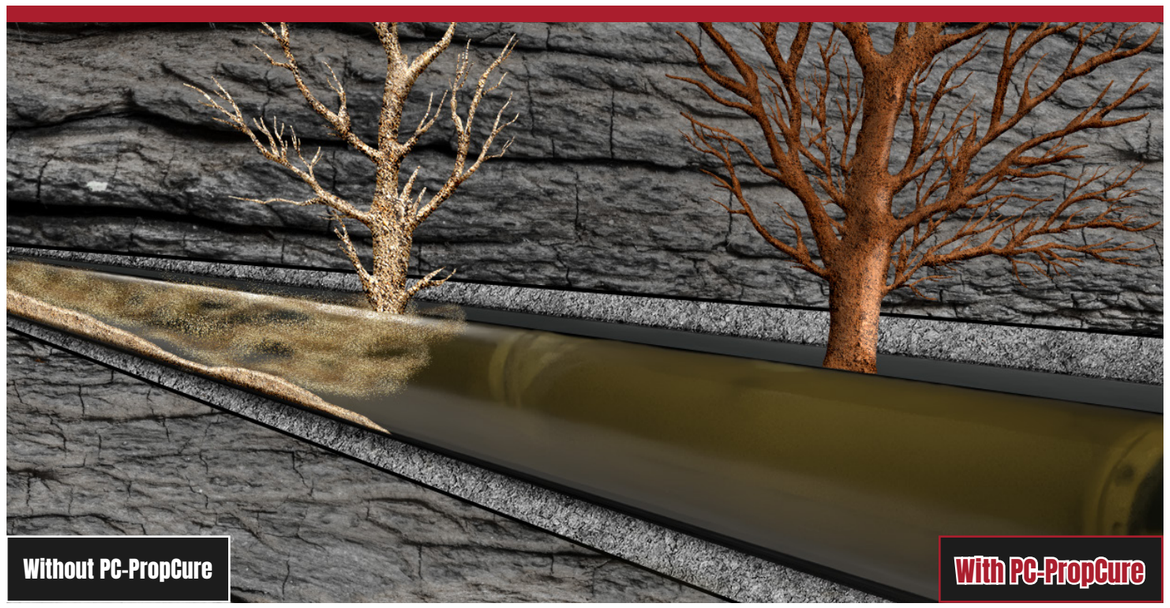
Extended Equipment Longevity reduces wear on both down-hole and surface equipment, protecting ESPs, rod pumps, and flowlines.

PC-PropCure In Action

A seven well pad in the Bakken, consisting of five Bakken wells and two Three Forks wells, was completed using 40 stages per well with 8 million lbs of 40/70 white sand (200,000 lbs/stage). The operator applied PC-PropCure in three wells (two Bakken, one Three Forks), while the remaining four wells (three Bakken, one Three Forks) used raw sand as a control. Wells treated with PC-PropCure showed an **oil production increase of over 200 barrels per day** compared to the raw sand wells.

CUMULATIVE BOE PRODUCTION







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