



ARC CBM Regain FMS™ Product Data Sheet

Delivering Tomorrow's Fluid Technologies Today

Description

Micro-solution Additive for CBM Foam Workover and Remediating fluids.

ARC CBM Regain FMS™ is a patent pending, biodegradable, thermodynamically stable micro-solution (clear mixture of solvent, co-solvent and surfactant) designed specifically for use in CBM remediation foam systems. **ARC CBM Regain FMS™** enhances any foam CBM remediation fluid by improving system penetration, optimizing release of accumulated substrate, facilitating black water flow back from and clean-up of the reservoir. **ARC CBM Regain FMS™** is compatible with foam waterbase remediating fluids. **ARC CBM Regain FMS™** can be used with other remediation chemicals or as a stand alone remediation treatment in a foamed system .

Properties

Form:	Liquid	Chemical Family:	Proprietary
Color:	Clear	Solubility:	Water and Brines
Odor:	Citrus	Wt. per Gal.:	8.81 lbs.
Charge:	Nonionic	Flash Point:	89° F

Application

ARC CBM Regain FMS™ is for Foam based applications .

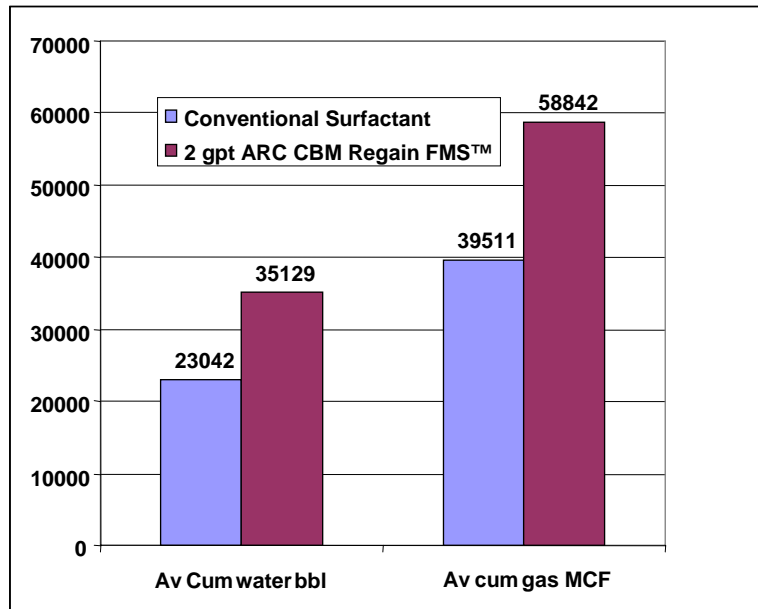
By controlling the interfacial tensions between the liquids, solids and gases within a CBM reservoir black water flow back and gas production performance is received. As the **ARC CBM Regain FMS™** micro-solution travels with the remediation fluid that enters into your reservoir when the seal is created. In so doing, all multiple phase interfacial tensions between fluids and solids encountered are reduced by more than 50 % thus optimizing flow back.

For foam remediation applications **ARC CBM Regain FMS™** should be added at a rate of 2 gallons per 1,000 gallons of base fluid. Some remediation applications may require a different concentration; for this reason ARC would like to ask you to contact us for our suggested formulation based upon your application.

Case History

ARC CBM Regain FMS™ improves flow back and gas production 50%.

Coalbed methane wells in the Rocky Mountains were remediated with and without the addition of **ARC CBM Regain FMS™** micro-solution product to the remediating fluid. The coal reservoir is at 3000 ft and 80 F. The treated wells have a perm of 0.1 mD on the average with a net pay of 30 ft. The **ARC CBM Regain FMS™** micro-solution treated wells returned 50% more water and produced 50% more gas on a cumulative basis over six months.



Six month average cumulative water and gas production
In coalbed methane in 3 wells with conventional
surfactant (foamer) and in 3 wells with a foamer + 2 gpt
ARC CBM Regain FMS™ treatment.

Compatibility

ARC CBM Regain FMS™ is generally compatible . . .

ARC CBM Regain FMS™ is generally compatible with cationic, anionic and amphoteric additives. A compatibility test is advised before use with other surfactants.

Handling and Storage

* Refer to Material Safety Data Sheet . . .

Keep drum tightly sealed to avoid contamination. **ARC CBM Regain FMS™** may cause eye, skin and respiratory tract irritation by contact with the liquid or vapors. Do not breathe vapors, especially in confined areas. Use with adequate ventilation. Recommend use of splash goggles and rubber gloves. Refer to the Material Safety Data Sheet for more detailed information.

Packaging

Specialty packaging is available . . .

ARC CBM Regain FMS™ is available in 5 gal. pails, 55 gal. poly drums, 330 gal. bulk tanks, or bulk transport loads.

Questions & Answers

ARC Fluid Technologies, LLC "Offering You Tomorrow's Solutions Today"

If you would like to know more about the ARC Micro-solution Technologies and how it can improve your well performance please contact us at:

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No claim of personal safety is intended nor implied by the use of the name Safe in this product. Personnel handling this material should read and follow all safety and handling procedures set forth on the Material Safety Data Sheet.