

Product Description

Acti-Gel[®] 208 is a low-dose rheology modifier and anti-settling agent that stabilizes mixtures, provides superior aggregate suspension, and dramatically improves the performance of concretes. When fully dispersed, Acti-Gel[®] 208 particles form a unique lattice 'microstructure' that maintains a homogeneous suspension enabling a reduction in segregation and bleed. Under shear, flow conditions are enhanced resulting in improved pumpability. Some designs may result in a reduction in measured slump. Please see optimizing recommendations below.

Acti-Gel[®] 208 is a highly purified Mg-aluminosilicate made from a patented process. It is non-swelling and shear stable in both low and high salt environments and between pH 2-13. Acti-Gel[®] 208 is neutral setting and will not affect air contents.

Acti-Gel[®] 208 complies with ASTM C 494, Type S.



Packaging

Acti-Gel[®] 208 is supplied in powder form.

Benefits:

- Improves flowability and settling properties
- Enables higher solids slurry
- Minimizes plugging potential; safe and easy start-ups
- Reduces water consumption and down time
- Decreases erosion and corrosion effects
- Reduces pressure loss along the pipe line

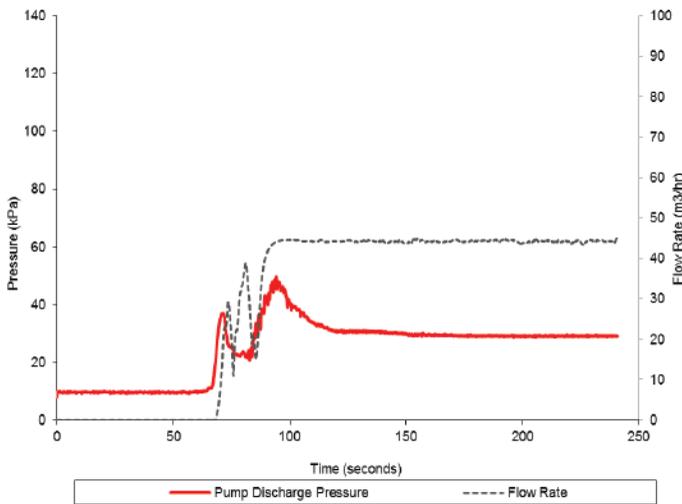


Performance

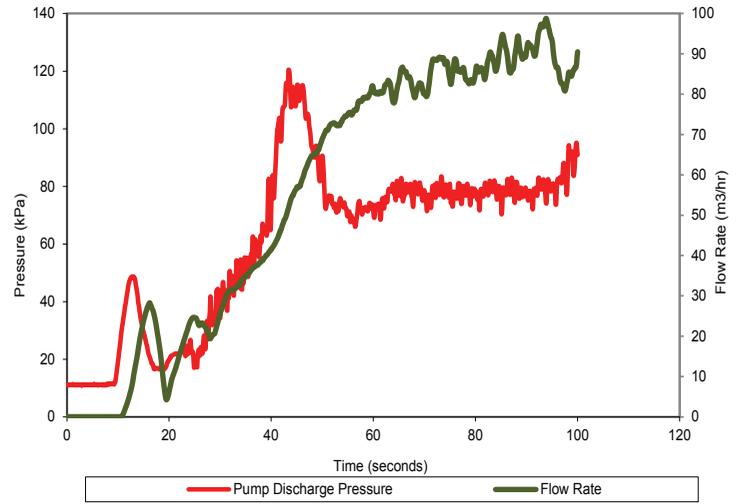
Acti-Gel[®] 208 is a thixotropic material that suspends particles, reduces segregation, and dramatically stabilizes high solids slurries. During mixing and transport, flow is greatly enhanced due to Acti-Gel's[®] shear-thinning behavior. On removal of shear, the rate of thixotropic rebuilding of the lattice structure is exceptionally fast, which prevents i) particles from dropping out of suspension ii) eliminates hardpacking, and iii) facilitates safe and easy start-ups, even after periods of extended shutdown.

Formulated to produce thixotropic slurries, Acti-Gel® 208 provides excellent suspension properties while maintaining pumpability over long distances. Elimination of segregation prevents clogging in the lines.

60.1 % Solids 0.05% Acti-Gel®, 15 hrs Downtime



62.1% Solids No Acti-Gel®, 17 hrs Downtime



At “Typical” Solids Level – Acti-Gel® 208 exhibited significantly lower Pump Discharge Pressures than the sample without Acti-Gel® 208. The Acti-Gel® 208 stabilized slurry had approximately 50% lower pressures. Also a very consistent and smooth flow rate and pressure were observed with the Acti-Gel® 208 stabilized slurry.

Guidelines for Use

Acti-Gel® 208 should be added to the suction end of the transfer pump (after thickener), using a recommended dry dosage range of ~0.05% to ~0.10% (total dry weight material basis). Please contact your local representative for recommendations. Acti-Gel® 208 must be mixed with sufficient high shear to become fully dispersed with the constituents.

Like any additive, the performance of Acti-Gel® 208 is dependent on mix proportions and fineness of materials. Active Minerals International, LLC (AMI) is available to help with formulations and recommendations in the customer’s lab.

Product Data Sheet, Rev. Jan 2017

Recommendations and advice concerning dosages, application, performance, and use is provided in good faith, based on our testing, experience, and knowledge of the product under normal conditions. All claims based on performance are believed to be accurate. No guarantee, either expressed or implied, is made with reference to the infringement of any patent. These values represent typical data from samples taken from production batches. They are not considered to be specifications. Results may vary depending upon equipment and procedures. The user of these materials is responsible for determining its suitability for their application with different materials and actual site conditions.