

MASTER STABILIZER



THE FUTURE IN WELL STABILIZATION: PRECISION, EFFICIENCY, AND GUARANTEED RESULTS IN DRILL & BLAST OPERATIONS.

BUCKET/JUG
5 Gal in emulsión

Designed and manufactured by Siat Mining



Description

MASTER STABILIZER™ is an advanced fluid specifically designed to overcome drilling challenges, from air drilling to Drill & Blast operations.

Formulated with cutting-edge technology, it penetrates deeply into formations, stabilizing the borehole walls and preventing collapses or spalling.

In blast hole drilling, it ensures uniform explosive loading for proper rock fragmentation.

Its unique composition also optimizes cuttings transport, reduces drilling time, and extends the life of drill steels.



Physical Properties

- » Appearance: Viscous liquid, cream/light brown color.
- » Solubility: Highly soluble in fresh or saltwater.
- » pH (1% in solution): 7 - 9.
- » Specific Gravity: 0.90 – 1.10.

Advantages

- » **Guaranteed Safety:** Significantly reduces the risk of wall collapse, maintaining borehole stability even under adverse conditions.
- » **Time and Cost Efficiency:** Minimizes the need for re-drilling and reduces fuel, material, and labor consumption.
- » **Perfect Results in Every Drill:** Produces a clean and uniform borehole, ideal for blasting or sampling operations.
- » **Improved Cuttings Transport:** Increases air lifting capacity, ensuring efficient hole cleaning.



Applications/Functions

- » Drilling in unconsolidated or high-risk spalling formations.
- » Drill & Blast operations requiring maximum stability and precision.
- » Drilling in extreme conditions, such as friable or fragmented terrains.
- » Blast holes, optimizing explosive loading and reducing waste.



Usage Instructions

» Preparation in an External Water Tank:

Mix MASTER STABILIZER™ at a concentration of 0.5% to 2% by volume in water. Ensure the water is conditioned to pH 7-9, ≤500 ppm (pretreat with Soda Ash if necessary). Supply this mixture to the machine's water tank.

» Localized Injection:

Apply directly to the critical zone of the borehole using the fluid injector (manufactured by SM). Rotate and move the drill pipe to maximize distribution.

» Continuous Dosing:

- a) Adjust the injector dosage depending on borehole conditions each time drilling starts. The injector will operate, injecting 4-8 Lts/hour through the water line.
- b) Maintain the equipment's water tank with the prepared mixture.