



# SuprSeal®

## Severe Lost Circulation Technology

### Description

SuprSeal® is a highly effective severe lost circulation technology engineered to restore circulation during high-volume and total loss events encountered while drilling. The system is designed to rapidly seal large fractures, vugs, and severe loss zones that threaten wellbore stability and drilling continuity. Delivered as a complete single-sack system requiring only water for preparation, SuprSeal forms a pumpable, high-solids sealing system capable of bridging large loss pathways. The formulation eliminates the need for additional additives or complex blending, simplifying field deployment and improving operational efficiency.

By restoring circulation and stabilizing the wellbore, SuprSeal helps reduce non-productive time, protect drilling fluid systems, and enable successful cement placement once drilling operations resume.

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### Advantage

- Delivered as a complete lost circulation system in a single sack with no additional additives required.
- Requires only water for preparation, simplifying logistics and rig operations and mixes efficiently through a standard 4-inch hopper.
- Forms a pumpable, high-solids slurry for severe loss control.
- Restores circulation to retain wellbore stability and minimize non-productive time.
- Reduces the need for cement top jobs by enabling cement to reach surface after circulation is restored.

### Application

- SuprSeal is used to remediate severe to total lost circulation events where conventional treatments are unable to restore returns.
- The system is specifically engineered to seal large natural fractures and highly vugular formations that present high-volume loss pathways.
- It is effective in depleted or highly permeable zones where sustained fluid losses threaten well control and operational continuity.
- SuprSeal serves as a contingency solution when traditional LCM blends fail to establish an effective seal.
- The product is routinely applied as a pre-cement stabilization treatment to re-establish circulation and ensure successful cement placement.

## Environmental Advantage

- SuprSeal meets LC50 aquatic toxicity testing criteria, supporting environmentally responsible drilling operations.
- SuprSeal rapidly restores circulation during severe loss events, significantly reducing drilling fluid waste and uncontrolled formation losses.
- Its high-efficiency sealing performance minimizes the need for repeated treatment cycles, lowering rig time and associated operational costs.
- The complete, single-sack system eliminates the need for multiple additives on location, streamlining inventory management and field logistics.
- By re-establishing well control quickly and effectively, SuprSeal reduces overall non-productive time and accelerates the return to drilling operations.

## Treatment Recommendations

- Determine slurry volume based on loss severity and interval length, with typical treatments ranging from 50 to 100 bbl per application.
- Mix SuprSeal with fresh water or seawater only; no additional solids are required unless density adjustment is necessary.
- Ensure thorough and aggressive mixing to achieve proper slurry development and sealing performance.
- Place the slurry directly across the loss interval and monitor returns to evaluate effectiveness.
- Refer to the SuprSeal Operational Mixing and Placement Guidelines for detailed field procedures.

## Physical Properties

Appearance: Tan to off-white coarse material

Specific Gravity: 1.4

Return Permeability: 90%

Temperature Stability: Up to 350°F (177°C)

## Handling and Storage

SuprSeal should be stored in a clean, dry environment and protected from moisture prior to mixing. Packaging must remain sealed until use to prevent contamination or premature hydration. Avoid exposure to standing water or high humidity during storage and follow standard bulk material handling practices during transport and blending. Refer to the Safety Data Sheet for appropriate personal protective equipment and safety guidance.

## Packaging

- SuprSeal® is packaged in 40 lb sacks, with 40 sacks per pallet (1,600 lb).
- Each pallet of SuprSeal is UV shrink wrapped for added protection during storage and transportation.



WelDril Holdings, LLC.  
701 W Hancock, Muskogee, Oklahoma 74401, United States  
(800) 247-9433 (918) 686-8585

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