

# Technical data sheet



## Description

SC MUD® L is a liquid synthetic water soluble polymer..  
SC MUD® L is a powerful viscosifying agent recommended for all type of drillings especially when clay formation is encountered.

## Applications

SC MUD® L based drilling muds are dedicated to:

- Water well drilling, soil sampling
- Horizontal directional drilling (HDD)
- Bored pile and d-wall construction
- Pipe jacking to enhance lubrication of BENTONIL based muds systems
- Slurry shield tunnelling to stabilize water sensitive formations and avoid clogging and plugging
- EPB tunnelling application as an efficient plasticizing and lubricant agent. Associated to SC FOAM® it improves the performance of these soil conditioning systems especially in coarse material.

## Benefits

- Cost effective in both fresh and brackish water : small amounts produce high viscosity solutions
- Easy to use product : quick hydration time
- Enhances recovery in coarse formation
- Stabilizes plastic clayey soils
- Reduce clay sticking and prevent clogging
- Degradable material: not fermenting. Addition of strong oxidizers accelerates the breakdown of SC MUD® L slurries.
- Friendly to the environment.

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## Physical properties

Appearance	Off white liquid
Specific gravity:	1,02 – 1,05 g/cm <sup>3</sup>
Bulk viscosity	1000 – 1500 mPa.s
pH of 0.2% solution :	7 – 8

## Guidelines for use

### ▪ **Water based mud systems**

Depending on the application and soil conditions, the dosage range is between 1 to 5.0 l/ m<sup>3</sup> of water. Recommended mixing time on low speed is 5 minutes.

### ▪ **Bentonite based mud systems**

Depending on the technique and soil conditions, the dosage range between 0,5 to 4.0 l/ m<sup>3</sup> of bentonite suspension. SC MUD® L should be added in a pre-hydrated bentonite suspension. Recommended mixing time on low speed is 5 minutes.

### ▪ **Air Drilling (EPB tunneling)**

SC MUD® L is the product of choice to improve lubricating and stiffness of SC FOAM systems. 0.4 to 0.8 l/m<sup>3</sup> of water are recommended for optimum performance. Recommended mixing time on low speed is 5-10 minutes.

## Packaging

Product is packed in 25 kg drums and 1050 kg IBC

## Storage

Keep the product in its original closed packaging above 0°C and no longer than 6 months

## Related Documents

MSDS & application sheets available on demand. Contact your CLARIANT technical representative for any further information or references.

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