

CONGO

CONGO, swellable polymer is used to stop severe fluid loss, and expands to 200 times its volume in freshwater. This material is environmentally safe, and can be mixed easily through a hopper, in a bucket or added directly into the hole.

Typical Physical Properties

Physical appearance.....White, granular powder
Specific Gravity.....0.8-1.0
Solubility.....Swells on contact with water

Applications

CONGO swellable polymer is used to stop severe fluid loss. The material quickly swells in water to seal fracture/void space. Immediately after placing CONGO in the loss zone, pull tooling up above the area to prevent sticking. Full hydration and swelling occurs in 20 to 30 min. Pairing CONGO with particle-type LCM's is an effective solution for severe losses.

Advantages

- CONGO swellable polymer is a fast-acting severe loss treatment, or can be pre-hydrated before adding to the hole.
- Because of its swelling ability and variability in size, CONGO can stop losses in a variety of fracture/void sizes.

Mixing Instructions

CONGO swellable polymer can be mixed in freshwater or slurry fluid with or without additional LCM. Add 1 to 3 lb (0.5 to 1.5 kg) per 4 gal (20 L) of water or slurry in a bucket (greater amounts can be used).

Pump the mixture as soon as possible after mixing. Wait 20-30 minutes for complete swelling to occur, and check if losses have been sealed. Repeat as necessary to stop fluid loss.

Toxicity and Handling

Handle as an industrial chemical, wearing personal protective equipment and observing the precautions described in the Safety Data Sheet (SDS).

Packaging and Storage

CONGO swellable polymer is packaged in 5-gal (18.9-L) buckets.

Store in a dry location away from sources of heat or ignition.