

## Riteks MCA-1

### Multipurpose Cement Additive

#### General Description

Riteks MCA-1 is a multipurpose cement additive that offers one additive to help with multiple slurry properties. Riteks MCA-1 provides a number of benefits and improvements to slurry designs that include free water control, enhanced fluid loss, increased early compression strengths, added viscosity, shortened thickening times and static gel strength transition times, & prevents fallback from occurring.

Riteks MCA-1 can also be used as a Fit-for-Purpose Quick Set Additive for Tail Cements, Loss Circulation Cements, Squeeze Jobs, & Plugs.

#### Features and Benefits

- Free Water Control
- Thixotropic properties
- Acceleration
- Promotes early compressive strength
- Greater ultimate compressive strength
- Improvements in gel strengths
- Added viscosity
- Prevents cement fallback
- Helps control fluid migration
- Helps slurries develop gel strength quickly
- Reduces job costs by reducing waiting-on-cement time and displaces some more expensive fluid loss additives

#### Recommendations for Mixing and Dosage

Range of Loading – 0.3-3.0% bwoc

Temperature Application 35F to 140F (1.67 to 60C)

Good compatibility with other fluid loss additives and latex materials to help decrease fluid loss and further prevent gas migration.

- Salt can be used to retard the reactive nature of MCA-1.
- Excessive salt (more than 12% for lightweight or 18% for normal weight slurries) may increase the additive's dispersing effects to an uneconomical level.
- Some dispersants may have an unintended viscosification effect

#### Typical Properties

Appearance: White, free-flowing powder

Specific Gravity – 2.573

Absolute Volume – 0.0466

Bulk Density (lb/ft<sup>3</sup>) – ~60

*Typical properties given do not constitute a supply specification.*

#### Performance Data

Slurry Testing Performance Parameters @ 0.75% bwoc loading include:

- Free water improvements from 4% to 0%
- Thickening Time from 10:00 to 5:00
- 12 hour compressive strengths from 500 psi to 1500 psi
- Gelation improvements from 10/12 to 27/47

#### Packaging

Available in 50 lb bags / 40 bags per pallet

#### Health and Environmental Data

Before handling or using this product please refer to the Safety Data Sheet for complete health, safety and environmental information. Dispose of waste in accordance with local, state and federal regulations.

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