

TECHNICAL DATA SHEET SOL DEF05

SOL DEF05 is a powder defoamer refined from a variety of modified polydimethylsiloxane components. It is highly efficient in eliminating foam in water-bearing systems.

Conventional silicone-emulsion-based defoamers are susceptible to emulsion breaking under high shear, leading to the coagulation of the active component, nullifying its defoaming capabilities. This is particularly so in strongly acidic or alkaline systems. Being powder-based, SOL-DEF05 circumvents the above pitfalls of its emulsion counterparts. SOL DEF05 can be easily dispersed in a carrier, allowing fast defoaming speed and long-lasting foam suppression.

Typical Characteristics

| Parameter | Specification |
|--------------------------|----------------------|
| Appearance | White or gray powder |
| Odor | Tasteless |
| Loss on drying | ≤ 3% |
| pH @ 1% aqueous solution | 6 – 8 |

Application

SOL DEF05 is specifically used to inhibit and eliminate the harmful bubbles released during the rapid hardening of cement. Bubbles are intrinsically generated upon the addition of water reducing agents to the cement. The addition of the water reducing agent is required to facilitate cement solidification, yet, the bubbles are detrimental to the hardening process. During mixing, air gets trapped within the cement slurry, reducing its density, leading to an inaccurate real-time measurement value. This discrepancy can mislead field operations, compromise cement quality, shorten cement thickening time and affect fracture formation integrity.

SOL DEF05 helps inhibit the occurrence of foam in cement slurries, maintaining the strength and structural integrity of cement materials.

Packaging and Storage

SOL DEF05 is packaged in 200L drum.

Store in dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

Recommended Handling

All personnel handling this material must handle it as an industrial chemical, wearing protective equipment and observing the precautions as described in the Safety Data Sheet (SDS).

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