

Darafill capsule

Controlled low strength material (CLSM)
performance additive

DESCRIPTION

Darafill capsule Controlled low strength material (CLSM) performance additive produces a cementitious material that is highly flowable, volume stable and excavatable in the future. Darafill capsule is a viscous solution of organic compounds used in cementitious backfill mixtures.

By developing a stable-air matrix in the CLSM mixture, Darafill capsule improves flowability and reduces the required amount of mix water up to 50%, compared to a water-based CLSM.

BENEFITS

- Improves flowability, lowers densities, settlement and control strength development
- Enhances plastic and hardened properties of CLSM
- Aids pumpability and minimises segregation in pump between loads
- Reduces buoyancy problems in CLSM (embedded pipes) compared to water based CLSM
- Cost-effective compared to compacted soil by increasing efficiency of labour and equipment
- Minimises settlement in comparison to compacted-soil backfill

APPLICATION

- Central mix operations
- Cement and pozzolans such as fly ash and ground blast furnace slag
- Trenches, tanks and pipes
- Trenches, undercuts and voids that requires safe leveling and high lateral flow fills
- Future excavation requirements that control strength development

INDICATIVE INFORMATION

Product Nature	Liquid
Color	Blue
Lifetime	12 months
Specific gravity (kg)	1,005 ± 0,010
pH	11,00 ± 1,50

PACKAGING

- Bulk

METHOD OF USE

Dosage :

Dosage rates are typically one 90 ml capsule per m³ of CLSM. In some mixes, additional capsules may be required, i.e. up to 2 capsules per m³. For large projects, Darafill capsule bulk is available. Dosage rates are 500 to 1,000 ml / m³ depending on optimum result required. The Darafill capsule CLSM Performance additive capsules are added in their entirety to the CLSM load. For premix truck batching, best results are achieved by tossing the capsules against the bottom of the truck hopper to ensure breakage and then washing down. Darafill capsule should be added directly into barrel after the CLSM load is batched. Use only 70% water in this step. High speed mixing to occur for 5 minutes, followed by water balance to obtain final CLSM. CLSM with Darafill capsule reaches optimum consistency when the mixture has creamy, flowing appearance. For central mix operations, add Darafill capsule into the central mixer and not into trucks to ease discharge from central mixer.

Equipment :

Please contact your local Chryso representative for further information regarding the dispensing equipment for this product.

PRECAUTIONS

- Darafill capsule have a storage tolerance in the temperature range of 0°C to 55°C
- Store Darafill capsule above freezing, away from heat sources and out of direct sunlight

SAFETY

Prior to any use, please read carefully the Safety Data Sheet (SDS).