TECHNICAL DATA SHEET

DARAFILL® DRY

Controlled Low Strength Material (CLSM) Performance Additive



DESCRIPTION

DARAFILL® Dry is a controlled low strength material (CLSM) powdered additive that produces material that is highly flowable, volume stable and excavatable in the future. It generates a stable air matrix in CLSM mixtures, improving flowability and reducing the required amount of mix water up to 50%, compared to a water-based CLSM.

*CLSM may be referred to as "Flowable Fill", "Controlled Density Fill" or "Cement Stabilized Sand" in different geographical areas.

ADVANTAGES

- Produces re-excavatable CLSM with 15–30% air entrainment and reduced buoyancy
- Generates CLSM with minimal subsidence relative to water-based fill systems
- Simplifies job site addition by being packaged in easy-to-use bags

FIELDS OF APPLICATION

- Street & Highway Cross Cuttings
- Abandoned Underground Structures
- Utility Excavations
- Commercial & Residential Back-fill Applications
- Pipe Bending
- Subgrade Base
- Backfill for Radiant Heat Flatwork

Method of Use

Dosage

- DARAFILL® Dry dosage rates can vary with the type of application. The addition rate can range between 35 oz/yd3 to 70 oz/yd3. Typical dosage rates are:
 - Small Bag: 0.38 lbs (0.17 kg) to dose 1 yd ³ (0.75 m³)
 - Large Bag: 1.5 lbs (0.68 kg) to dose 4 yd³ (3 m³)
- Optimal addition rates should be determined based on field trials.
- Should conditions require using more than the recommended addition rates, please consult your CHRYSO® representative.

Additional Usage Recommandations

• Suitable for use with cement, and pozzolans such as ASTM grade fly ash and ground blast furnace slag.

Implementation

- In general, it is recommended that DARAFILL® Dry beadded directly into mixers after the CLSM load is batched.
- Product is fully activated once CLSM reaches a creamy, flowing appearance.
- For central mix operations, add the contents of DARAFILL® Dry bags into the central mixer and not into trucks to ease discharge from the
- Pretesting should be performed before use and as conditions & materials change in order to optimize dosage rates & mixing times.
- If water-based CLSM is now being used, a mix design adjustment will be required in order to use DARAFILL® Dry. Mix design information may be obtained from your CHRYSO® representative.



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Chryso Concrete Solutions

Performances

- Provides a cost-effective alternative to a water-based CLSM mixture.
- Produces highly flowable CLSM with no segregation.
- Controls strength development for future excavation, usually in the range of 50 psi to 200 psi (0.35 to 1.40 MPa) depending on the application requirements.
- Increases yield of materials up to 30%.
- Generates densities in the range of 90 to 120 lbs/ft³ (1440 to 1920 kg/m³).
- Aids pumpability and minimizes segregation in pump between loads.
- Reduces buoyancy problems in CLSM around embedded pipes and tanks when compared to water-based CLSM.

CHARACTERISTICS

Product Nature	Aggregated powder
Color	Yellow-white

PACKAGING

- 1.5lb bag
- 0,17kg Bag (0,38 lb)

PRECAUTIONS

- In storage, product should be kept away from heat sources, humidity and direct sunlight.
- Product should not be stored below 32°F (0°C) or above 130°F (55°C).
- DARAFILL® Dry is designed for CLSM mixtures and is not recommended for use in conventional concrete.

SAFETY

Prior to any use, please read carefully the Safety data Sheet.

