

Description



TamCrete CG –M is a Non-Shrink Polymeric Grout Admixture, specially developed to enhance flowability and thixotropic nature of cement grout and mortar. **TamCrete CG-M** consist of selective polymer to enhance flowability to the cement particle

TamCrete CG-M exhibit rheoplastic nature and high early strength with low water-cement ratio.

TamCrete CG-M undergoes expansion in hydration process, which compensates shrinkage, ensuring rock bolt, cable grout or mortar are surely and fully encased.

Key Benefits

- > High flowable at low water-cement ratio.
- > Low water-cement ration enhance high early and ultimate strength.
- > Shrinkage compensates grout/mortar.
- > Stable grout with zero bleeding.
- > Full encased due to expansion.

Recommended Uses

- > Grouting application required high flow.
- > Rock Bolt and Soil Nail installation.
- > High strength mortar.
- > High flow mortar/grout.
- > High Performance tunnel backfill applications.

Technical Data

TamCrete CG-M

Form	Powder
Density	0.80 gm/cc
Chloride	< 0.2 %
Expansion	Controlled positive expansion in unset grout, to overcome plastic settlement, when it measured in accordance with ASTM C827.
Setting Time	TamCrete CG-M does not have any significant effect on setting time of cementitious grout.

All tests done at Lab condition.

Application Guideline

Dosage: 0.40% by weight of cement (200 g per 50 kg bag of cement). Best determination of dosage is done by site trials. For reference W/P ratio can be kept nearly 0.40 to 0.45.

Equipment: Use a medium to high speed drill with suitable paddle mixer. For larger mixes, use a medium to high speed grout mixer 600 to 1,000 rpm. We recommend using a low pressure rotor/stator type pump.

Mixing: TamCrete CG-M should be added to the Portland cement or mortar at a dosage level ranging from 0.4% by weight of the cement content in the mix. Note: Dosage and water addition is dependent on cement quality and fineness. Firstly add approximately 95% of water to the mixing vessel (i.e. approximate 22ltrs) and start mixer TamCrete CG-M to water and mix for 30 seconds. Add 100kg of Portland cement to the mixer and mix for approximately 4 - 5 minutes, or until a lump free consistency is achieved. If required, add the remaining 5% of water (1ltr) and mix until correct consistency is achieved. Transfer the grout from the mixing vessel, into pump hopper.

TamCrete CG-M is compatible with other TamCem products; prior trials must be conducted using any other admixture. Please contact local Normet representative for more details.

Packing

TamCem CG-M is supplied in 25 kg bag and Packaging size may vary subject to local regulations and requirements, please contact your local Normet representative for more details.

Storage

TamCrete CG-M should be kept dry and out of direct sunlight, stored at room temperature above 0°C. If these conditions are maintained and the product packaging remains sealed, then a shelf life of one year can be expected.

Health & Safety

TamCrete CG-M should only be used as directed. We always recommend that the Safety data sheet is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Safety data sheet is available upon request from your local Normet representative.