

DESCRIPTION



TamCrete CG is a unique water reducing admixture (in powder form), specially developed to enhance the flowability, stability, and thixotropic properties of Portland cement grouts. It exhibits excellent pumping characteristics and high early strengths with water cement ratios as low as 0.23.

TamCrete CG undergoes Dual Expansion in the hydration process which eliminates shrinkage, ensuring rock bolts and cable anchors are securely and fully encased.

KEY BENEFITS

- > Highly flowable at low water cement ratios
- > Thixotropic properties - Grout remains even in overhead holes
- > Stable grout with zero bleed
- > Cables and Bolts fully encased, due to dual expansion.
- > Prevents corrosion of steel
- > Exhibits high early and ultimate strengths

TYPICAL APPLICATIONS

- > Rock bolt and soil nail installations
- > Grouting of pre-stressed cable bolts
- > High performance tunnel backfill grout applications
- > Encasement of pipe pile roofs in tunnels
- > Grouting applications requiring high flow

TECHNICAL DATA

TamCrete CG	
Colour	Grey
Density	1.8
Form	Powder
Chloride content	< 0.1%
Compressive Strength	
4 hours	> 5 MPa
24 hours	> 30 MPa
28 days	> 70 MPa
All at 25°C and 0.23 Water/ Cement ratio	

All technical data stated herein is based on tests carried out under laboratory conditions.

APPLICATION GUIDELINES

To ensure optimum performance, always use fresh quality Portland cement.

Equipment

Use a medium to high speed drill with suitable paddle mixer. For larger mixes, use a medium to high speed grout mixer 600 - 1,000 rpm.

We recommend using a low pressure rotor/stator type pump.

Mixing

TamCrete CG should be added to the Portland cement at a dosage level ranging from 3% - 6% by weight of the cement content in the mix.

Note: Dosage and water addition is dependent on cement quality and fineness.

Firstly add approx 95% of water to the mixing vessel (i.e. approx 22ltrs) and start mixer. Add 3% - 5% of TamCrete CG to water and mix for 30 seconds. Add 100 kg of Portland cement to the mixer and mix for approx 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.

Placement of Grout

Rock Bolting

1. Pump the grout until it visibly flows out of the end of the grout pipe. (PVC pipe)
2. Install the grout pipe into the very back of the drilled hole.
3. Start pumping slowly, and allow the grout flow pressure to push the grout pipe back out of the hole.
4. Insert the Rock bolt into the grouted hole. If bolting overhead, use a wooden or steel wedge to hold the bolt in place until the grout has gained sufficient strength to hold itself.

PACKAGING

TamCrete CG is supplied in 16 kg bags. Packaging size may vary subject to local regulations and requirements.

STORAGE

TamCrete CG should be stored at room temperature (min 10°C and max 35°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of six months can be expected.

HEALTH & SAFETY

TamCrete CG 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.

YOUR LOCAL CONTACT DETAILS

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