

DESCRIPTION



TamCrete GP is a non-shrink, class A cement based, high strength grout which is specially formulated for use in critical grouting operations where positive expansion and non-staining characteristics are required.

KEY BENEFITS

- Positive expansion to ensure effective contact and support
- Good flow characteristics to allow ease of application
- Rapid strength development to ensure minimal downtime
- Reliable factory controlled quality formulations eliminating site batching errors
- High ultimate strength and low permeability giving long-term durability
- Iron-free, eliminating staining or deterioration due to rust expansion.
- Chloride-free, allowing use in contact with reinforced steel.

TYPICAL APPLICATIONS

- Heavy duty support beneath load bearing units such as stanchion bases, machine base plates and crane rails.
- Concrete repair (when dry packed)
- Pressure grouting
- Anchoring grout for anchor bolts and masts

TECHNICAL DATA

Compressive Strength (Tested in accordance with AS1012.9 and AS2073)			
	Dry Pack	Trowellable	Flowable
1 day	> 12Mpa	> 8Mpa	> 6Mpa
7 days	> 50Mpa	> 40Mpa	> 35Mpa
28 days	> 60Mpa	> 50Mpa	> 45Mpa
Flexural Strength (Tested in accordance to ASTM C348)			
ASTM C348	Trowellable	Flowable	
28 days	> 6.0Mpa	> 5.5Mpa	
Flow Characteristics (Tested in accordance to AS2073)			
Flow (Flowable)		20 – 35 seconds	
All tested at 20°C			

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

APPLICATION GUIDELINES

Mixing

TamCrete GP is supplied in a ready to use form requiring only the addition of fresh clean water. For optimum results TamCrete GP must be mixed with a mechanical forced action mixer with a high shear stirrer. It is essential that the grouting operation is continuous hence ensuring sufficient labour and mixing capacity is available.

Note: DO NOT MIX BY HAND.

The water content to achieve the desired consistency is as follows:

Mixing Consistency (Litres of Water per 20kg bag)			
	Dry Pack	Trowellable	Flowable
Range	2.5 – 2.8	3.0 - 3.2	3.5

The selected water content should be accurately measured into a mixing vessel. Slowly add the dry powder (TamCrete GP) while mixing. The mixing should continue for a maximum of 5 minutes until a uniform homogeneous consistency is obtained.

Note: DO NOT ADD ADDITIONAL WATER. Discard any material that has hardened or stiffened. Warm water will reduce the workability time and also reduce the flow.

Placing

It is essential that at ambient temperatures (approx. 20°C) the grout is placed within 25 minutes of mixing and this will ensure the expansion process will be maximised. Flowable TamCrete GP can be placed in thickness ranging from 10mm to 100mm in one single application. Where thickness is greater than 100mm, special procedures may be necessary, please refer to our technical department for details.

Avoid trapping air and water by placing grout from one side only. It is recommended that a suitable head box be used to ensure continuous flow of grout. Ensure entire area to be grouted is filled by bringing level to above underside of machine base plate and remain at the this level throughout grout placement. The grout head must be maintained at all times so that a continuous grout front is achieved. Do not use mechanical vibrators to assist in flow as this will cause segregation of aggregates. For large areas it is recommended that TamCrete GP be pumped. Refer to our Technical Department for detailed information

Curing

On completion of grouting exposed area should be covered with plastic sheeting to prevent excessive moisture loss. Keep grout covered for a minimum of 24 hours. Remove formwork no sooner than 24 hours after completion of grouting and continue to cure with plastic sheeting. Lack of sufficient curing could result in plastic cracking and drying shrinkage on surface. The surface should be protected for at least 7 days with either a curing compound or plastic sheeting.

Cleaning

TamCrete GP should be removed from tools and equipment with clean water immediately after use.

► PACKAGING

TamCrete GP is supplied in 20kg bags. Packaging size may vary subject to local regulations and requirements.

► STORAGE

TamCrete GP 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 1 year can be expected.

► HEALTH & SAFETY

TamCrete GP 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.