

PRODUCT DESCRIPTION

TAMMSGROUT SUPREME is specially designed for use where high compressive strength and high fluidity are required. It is formulated as a natural aggregate system with a shrinkage compensating binder and increased compressive strength. TAMMSGROUT SUPREME provides consistent and exacting performance in critical grouting applications.

USAGE/PURPOSE

Critical, heavy duty, non-shrink, grouting applications including:

- Pump and machinery baseplates subject to static, or moderate dynamic loading
- Structural columns
- Pump and machine bases
- Anchor bolt grouting
- Crane rail soleplates
- Pre-cast concrete panels

APPEARANCE

TAMMSGROUT SUPREME is a free flowing powder designed to be mixed with water. After mixing and placing, the colour may initially appear much darker than the surrounding concrete. While this colour will lighten up substantially as it cures and dries out, the grout may always appear somewhat darker than the surrounding concrete.

SHELF LIFE

Shelf life will be 12 months when stored as recommended.

STORAGE

Store in original, undamaged packaging in a clean, dry, protected location.



FEATURES & BENEFITS

- Shows positive expansion when tested in accordance with ASTM C1090 and meets non-shrink requirements of CRD-C 621, Corps of Engineers specification for non-shrink grouts.
- High early & ultimate compressive strengths to minimize turnaround time for equipment re-grouts.
- Can be placed from 12mm – 127mm per lift.
- Non-bleeding and non-segregating at highly flowable consistency.
- Does not contain any chlorides or additives which may contribute to corrosion of base structure.
- Provides maximum bearing surface for the greatest overall support.
- Highly flowable consistency allows for pumping long distances.

PACKAGING

20kg Bag.

TYPICAL PHYSICAL PROPERTIES (21°C)			
PROPERTY		STANDARD	FLOWABLE CONSISTENCY
Compressive Strength	1 Day	ASTM C109 (restrained)	42
	7 Days		86
	28 Days		106
Compressive Strength	1 Day	AS 1478.2:2005	38
	7 Days		78
	28 Days		97
Flow Rate		ASTM C230 (Flow Table)	130%
Expansion	3 Days	ASTM C1090	0.02%
	28 Days		0.04%
Flexural Strength	1 Day	AS 1012.11-2000	3.6
	7 Days		11
	28 Days		12.2
Tensile Strength	1 Day	AS 1012.10.2000	2.5
	7 Days		6.8
	28 Days		6.9
Working Time			Approx 30 minutes
Setting Time	Initial	Gillmore Needles	2-3 Hours
	Final		5-6 Hours

COVERAGE / YIELD

Approximately 10.2lts per 20kg bag at flowable consistency.

DIRECTIONS FOR USE

Surface Preparation (Concrete): Concrete surfaces must be prepared using acceptable mechanical means and concrete degreasers as necessary to obtain a clean, sound and rough concrete surfaces with an exposed coarse aggregate profile. The prepared substrate must be free from oil, grease, surface laitance and any other contaminants. Prior to placement, soak concrete surfaces thoroughly for a minimum of eight hours with potable water. Remove all excess surface water immediately before grouting.

Surface Preparation (Steel): Where bond to metal surfaces is not required, coat with a bond breaker. Where bond to metal surfaces is required, the surface shall be clean, free of oil, grease, rust, loose coatings and any other contaminants. Air relief holes must be provided where base plate design and high spots will create air pockets. Any shims and wedges that are to remain in place, should be positioned a minimum of 50mm from the edge of the baseplate & have rounded corners to reduce stresses created during grouting.

Formwork: Formwork shall be rigid, securely anchored & strong enough to resist the forces created during grout placement. Formwork shall be caulked / sealed to prevent grout leakage during placement. Formwork shall be coated with a suitable form release compound. The clearance between formwork and base plate on the pouring side shall be sufficient to allow for a head box. The clearance for remaining sides shall be 25 to 50mm. The unrestrained shoulders of the grout must be kept to a minimum. Height of formwork shall extend a minimum of 25mm above the bottom of the base plate.

Mixing: Small quantities of grout may be mixed with a drill and paddle mixer. A mortar or pan mixer should be used for larger grouting jobs. Do not exceed one-half the maximum capacity of the mortar mixer. Concrete or cement mixers are not recommended except for when extending grout with coarse aggregate. Pre-wet mortar mixer & empty excess water. Start by adding 2/3 of the selected, pre-measured water content to mixer. While mixing, slowly add grout and mix to a uniform consistency for approximately three minutes. Add remaining water as necessary to achieve desired consistency. Total mixing time will be approximately four to five minutes. Do not exceed maximum water as stated on product packaging or add an amount that will cause segregation. Do not mix more material than can be placed within the working time of the grout. Do not re-temper the mix by adding additional water.

Placement: TAMMSGROUT SUPREME can be placed from a plastic to highly flowable consistency and can be poured or pumped into place. Placement thicknesses range from 12mm up to 127mm per lift. Grout must be placed quickly and continuously from one side only and across the shortest distance possible. A head box or similar device is recommended when pouring grout to avoid air pockets under the baseplate and assure complete filling of the void. Place grout only to the bottom edge of the baseplate. Where large volumes of grout must be placed TAMMSGROUT SUPREME can be pumped. Contact customer service on (02) 9638 2755 should you require more detailed placement guidelines.

Finishing and Curing: As soon as the sheen of water disappears from exposed grout shoulders and the grout has started to stiffen, pond the exposed surfaces with water or cover with wet rags, or plastic to prevent premature drying out. TAMMSGROUT SUPREME must be wet cured for a minimum of 3 days or coated with an approved curing compound after 24 hours of wet curing. Formwork may be removed as soon as the grout has stiffened or set sufficiently to prevent sagging away from the bottom of the baseplate. Note: Formwork facilitates curing when left in place for as long as possible. If chamfer strips were not included in formwork, then exposed shoulders should be mechanically trimmed to provide a 45° chamfer on vertical & top edge sharp corners.

Consistency	Estimated Water Content per 20kg Bag
Plastic	2.0 to 2.3 litres
Flowable	2.4 to 2.7 litres
Highly Flowable	2.8 to 3.0 litres

**Do not add water in an amount that will cause bleeding or segregation.*

PRECAUTIONS/LIMITATIONS

- ❑ For optimum performance grout should be conditioned to ambient temperatures of between 20°C and 32°C. Temperature of substrate and equipment should be between 4°C and 32°C.
- ❑ When grouting in extreme conditions, follow the recommendations of ACI 305R "Guide to Hot Weather Concreting", or ACI 306R "Guide to Cold Weather Concreting".
- ❑ Do not use grout at temperatures that may cause premature freezing.
- ❑ Rate of strength gain is significantly affected by temperature extremes. Published Physical Properties are typical values at ambient conditions.
- ❑ Proper curing is required.
- ❑ Grout shoulder cracking may occur on wide shoulders, improperly cured shoulders, or at stress points such as shimpacks, bolts, or plate stiffeners. These cracks are typically of no structural significance.
- ❑ Store materials in a dry place.
- ❑ Do not use grout as a topping, or concrete repair material.
- ❑ In all cases, consult the Safety Data Sheet before use.

HEALTH & SAFETY PRECAUTIONS

The Safety Data Sheet (SDS) must be read and understood prior to use.

TECHNICAL SERVICE

Tremco CPG Australia Pty Ltd has a team of Representatives who provide assistance in the selection and specification of products. For more detailed information or service and advice, call Customer Service on (02) 9638 2755 or fax (02) 9638 2955.

GUARANTEE/WARRANTY

TREMCO products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with TREMCO written instructions and (b) in any application recommended by TREMCO, but which is proved to be defective, will be replaced free of charge. Any information provided by TREMCO in this document in relation to TREMCO's goods or their use is given in good faith and is believed by TREMCO to be appropriate and reliable. However, the information is provided as a guide only, as the actual use and application will vary with application conditions which are beyond our control. TREMCO makes no representation, guarantee or warranty relating to the accuracy or reliability of the information and assumes no obligation or liability in connection with the information. To the extent permitted by law, all warranties, expressed or implied are excluded.

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