

### PRODUCT DESCRIPTION

EUCO TREMIE GROUT is specially designed for use in underwater grouting applications. EUCO TREMIE GROUT is a highly flowable, cement based, non-shrink grout which remains in a cohesive, well balanced mix when placed or pumped underwater. EUCO TREMIE GROUT meets the performance requirements of CRD-C 621 and ASTM C 1107 specifications for non-shrink cementitious grouts.

### USAGE/PURPOSE

Non-shrink grouting applications including:

- Underwater grouting
- Pile jacket in-fill grouting
- Pile restoration & pier supports
- Off-shore rigging
- Slipways and dams

### FEATURES & BENEFITS

- Shows positive expansion when tested in accordance with ASTM C 1090 and meets non-shrink requirements of CRD-C 621, Corps of Engineers specification for non-shrink grouts.
- Rapid strength gain for early support, with high ultimate compressive strengths.
- Contains an anti-washout additive to ensure cohesiveness underwater.
- Highly flowable for placement by pumping or pouring.

### PACKAGING

20kg Bags

### COVERAGE/YIELD

Approximately 10.2lts per 20kg bag at flowable consistency.



### STORAGE

Store in original, undamaged packaging in a clean, dry, protected location. Shelf life will be 12 months when stored as recommended.

### INSTALLATION GUIDELINES

**Surface Preparation (Concrete):** Concrete surfaces must be prepared as necessary to obtain a clean, sound surface with a roughened profile to provide a mechanical key for the subsequent grout. The prepared substrate must be free from marine growth, oil, grease, surface laitance and any other contaminants. For applications that are not underwater, prior to placement, soak the prepared concrete surfaces thoroughly for a minimum of eight hours with potable water. Remove all excess surface water immediately before grouting.

**Surface Preparation (Steel):** Where reinforcement is exposed, mechanically prepare surfaces to remove all rust, scaling, oxidation, marine growth and other contaminants.

### TYPICAL PHYSICAL PROPERTIES @ 21°C

PROPERTY		STANDARD	FLOWABLE CONSISTENCY
Compressive Strength	1 Day	ASTM C109 (restrained)	30 MPa
	7 Days		60 MPa
	28 Days		70 MPa +
Flow Rate		ASTM C230 (Flow Table)	130%
Expansion	28 Days	ASTM C1090 / CRD-C 621	0.08%
Flexural Strength	1 Day	AS 1012.11.2000	3.4 MPa
	7 Days		7.5 MPa
	28 Days		9.6 MPa
Tensile Strength	1 Day	AS 1012.10.2000	2.4 MPa
	7 Days		4.3 MPa
	28 Days		6.2 MPa
Working Time			30 Minutes
Setting Time	Initial	Gillmore Needles	2.5 to 4 Hours
	Final		4 to 6 Hours

\*Compressive Strength results published above are typical based on laboratory testing using 50mm cubes and tested at 14% water. Variations of these results can be expected if alternative sample sizes, or test methodology is used.

**Formwork:** Formwork or FRP Pile Jackets shall be constructed of rigid nonabsorbent materials. Formwork should be constructed to be leak-proof, securely anchored and strong enough to resist forces developed during grout placement. An appropriate bottom seal must be constructed where pumping grout into FRP Pile Jackets. Formwork or FRP Pile Jackets should have pump ports installed when grout is to be pumped.

**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. 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:** EUCO TREMIE GROUT can be placed by pouring or pumping. Placement thicknesses range from 12mm up to 150mm per lift when used underwater. Grout must be placed quickly and continuously to prevent any air or water being trapped. For large volume placements EUCO TREMIE GROUT may be extended with aggregate. Contact customer service on (02) 9638 2755 for additional grout placement and aggregate extension guidelines.

**Finishing and Curing:** Curing is not required for applications underwater. EUCO TREMIE GROUT should be kept continuously wet for 3 days using water and / or damp hessian sacks in tidal zone, or above water areas.

**Mixing Water Guide:** (Note: Do not add water in an amount that will cause bleeding, or segregation)

Consistency	Estimated Water Content Per 20kg Bag
Plastic	2.1 to 2.3 litres
Flowable	2.4 to 2.8 litres

### 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.
- Rate of strength gain is significantly affected by temperature extremes. Published Physical Properties are typical values at ambient conditions.
- Store materials in a dry place.
- 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.

### CONTACT OUR TEAM

Tremco CPG Australia Pty Ltd  
 ABN: 25 000 024 064  
 Unit 12, 4 Southridge Street  
 Eastern Creek, NSW 2766

P: (02) 9638 2755  
 F: (02) 9638 2955  
 E: tremco@tremco.com.au