

PT Grout

technical data sheet

crosbe PT Grout is a high performance, pumpable, low bleed, cementitious grout with exceptional strength and durability. Engineered for grouting of post tensioning ducts and suitable for other high flow grouting applications.

Recommended Uses:

Pumping and filling areas around post tensioned cables to encapsulate the steel and protect it against corrosion.

Grouting horizontal and vertical ducts within bonded post tensioned strand systems.

Advantages:

- Sand free pumping into areas with tight clearance requirements
- High flow properties even at low rate w/c ratio
- No expansive mechanism
- Low bleed even at high flow
- Rapid strength gain
- Does not segregate
- Rain and tear resistant PE bags reduce product loss from damaged packaging

Preparation:

Prior to mixing grout, ensure duct inlets and outlets are free of obstructions.

Fill mixing hopper with clean water and prime pump, grout hoses and nozzles. Flush ducts with clean water to lubricate and remove any loose particles, residue or dirt that may interfere with the flow of grout through the ducts, or compromise the bond between the grout and surface of the strand.

Mixing:

1. Place 7.2-8.0 litres of potable water (per 20kg bag) into a clean, high shear mixer. Never exceed the maximum recommended water ratio of 8.0 litres per 20kg bag.
2. Start mixer then slowly add crosbe PT Grout
3. Mix for 4 – 5 minutes after the addition of the last bag
4. Commence pumping whilst continuing to agitate grout

Pumping:

Remove any excess water from grouting hoses. Connect the grout nozzle to the duct inlet tube and commence continuous pumping until grout begins to flow from the outlet tube. Stop pumping and seal grouting tubes. Repeat the process as required.

Do not commence mixing of subsequent batches until all grout in the mixer has been used. Grouting equipment should be rinsed / flushed regularly to prevent the build-up of grout on surfaces. Built-up grout can become dislodged and cause blockages during the grouting process.

Dispose of any unused grout in an appropriate disposal area or construction waste bin.

Temperature Consideration:

The mechanism of interaction between cement and water is temperature sensitive. To avoid accelerated or delayed setting times, the recommended ambient temperature and water temperature range is 17 – 25 °C. Working with temperatures outside of this range will also impact the fluidity of the grout.

Do not apply grout with ambient temperatures less than 10 °C. When ambient temperatures are above 32 °C, consider using cool water for mixing the grout as well as rinsing and flushing equipment and ducts.

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Product Data:

Property	Test Method	Result	
Fluidity	ASTM C939	Initial Flow	16 seconds
		Change in Flow in 45 min	< 3 seconds
Early Expansion	ASTM C940	0%	
Bleeding	ASTM C940	0.20%	
Change in Height	ASTM C 1090	At 24 hours	0%
		At 28 Days	0%
Chloride Content	AS 1012.20	<0.02%	
Setting Time	AS 1012.18	Initial: 175 minutes Final: 245 minutes	
Pump Life		<90 minutes	
Fresh Wet Density	AS 1012.5	1860 kg/m ³	
Yield	Approximate yield per 20kg bag	15.1 litres	
Compressive strength	AS 1478.2 Appendix A	> 60 MPa at 7 days	

Testing Parameters: 40% of water. Laboratory at: 23±2 °C > 50% RH

Packaging:

20kg PE water resistant bags, 1000kg bulk bags

Shelf Life:

24 months from date of production if stored indoors in undamaged and unopened PE bags.

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Important notice:

A safety Data Sheet (SDS) is available from the Crosbe website (crosbe.com). Please read the SDS carefully prior to using this product. In an emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia).

Product disclaimer:

Recommendations and advice regarding the use of this product are to be taken as a guide only. The manufacturer of this product and any of its affiliate companies cannot be held responsible for any loss or damage arising from the incorrect usage of this product. The use of this product is beyond the manufacturers control, and liability is restricted to the replacement of material should the product be proven faulty. The information contained herein is to the best of our knowledge, true and accurate. We reserve the right to update information without prior notice. No warranty is implied or given to its completeness or accuracy in describing the performance or suitability of the product for a particular application.