Crosbe Pty Ltd
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ABN: 84 625 848 722
3 Viewbrook Close, Seven Hills

Technical Data Sheet

InfraGrout® 100

InfraGrout® 100 is a high strength, high flow, low bleed, pumpable cementitious grout with extended working time. Designed for general civil applications including temporary anchors and soil nails.

Recommended Uses:

Grouting of ground anchors and soil nails.

Advantages:

- Sand free pumping into areas with tight clearance requirements
- High flow proprieties
- Low bleed
- Early strength gain
- Does not segregate
- 100% recyclable, tear and rain resistant PE bags, reducing product loss from damaged packaging

Preparation:

Prior to mixing grout, ensure grouting tubes are free of obstructions.

Fill mixing hopper with sufficient clean water to prime and cool the pump, grout hoses and nozzles. Ensure grouting tubes are free from loose particles, residue or dirt that may interfere with the flow of grout.

Mixing:

1. Place 8.0 litres of potable water (per 20kg bag) into a clean, high shear mixer
2. Start mixer and add **InfraGrout® 100**
3. After the addition of the last bag, continue mixing for 4 minutes to ensure proper activation of additives and optimal product performance.

Pumping:

Select an effective pumping method to match the specific application, taking into consideration the total volume of grout, distance and change in level from pump to area of application.

Remove any excess water from grout hoses prior to pumping.

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It is important to continuously agitate the grout after mixing and during the pumping process. If the grout is allowed to sit unagitated, it will increase in viscosity and may become more difficult to pump.

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. The set time is delayed at low temperatures and is accelerated at high temperatures. To avoid significant change in setting times, the recommended water temperature, ambient and substrate temperature ranges are:

Water Temperature Range: 15˚C - 25˚C. Working with temperatures outside of this range will also impact the fluidity of the product.

Ambient Temperatures: Do not apply at a temperature less than 10˚C. Above 30˚C, consider using cooled water for mixing the product. Do not apply at temperatures above 35˚C.

Substrate Temperature: Do not apply onto a surface which has a temperature less than 10˚C or above 35˚C.

Crosbe InfraGrout® 100 – Product Data:

Property	Test Method		Test Result
Fluidity	ASTM C939*	Initial Flow	< 20s
		Change in flow @ 45 min	< 3s
Compressive Strength	AS 1478.2 Appendix A	1 day	> 18MPa
		3 days	> 30MPa
		7 days	> 40MPa
		28 days	> 60MPa
Bleeding	ASTM C940		< 3%
Pump Life			≈ 70 minutes
Fresh Wet Density	AS 1012.5		1960 kg/m³
Yield	Approximate yield per 20kg bag		13.5 Litres

Testing Parameters: 0.4% of water. Laboratory at: 23±2 ˚C > 50% RH.

** Modified to measure efflux time for 1.0 Litre of grout.*

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The performance data is typical and based upon controlled laboratory conditions. Actual performance on the job site may vary from these values based on actual site conditions.

Packaging:
20kg Polyethylene (PE) bags.

Shelf Life & Storage:

Shelf Life
The shelf life of the product is 18 months from the date of manufacture, if stored indoors in accordance with recommended storage conditions.

Storage
Store in dry conditions, in unopened and undamaged PE bags and in temperatures below 30˚C. If stored in excessive temperature conditions, externally exposed to the elements or in high humidity conditions, the shelf life may be reduced.

Safety Data:
This product may cause irritation and an allergic reaction to the skin. It may cause serious eye injury and irritation to the respiratory system. In case of contact with the eyes rinse with running water (15 mins) including removal of contaminated clothing. Wear protective gloves, clothing, eye and face protection. Avoid inhaling dust/ fume/gas/mist/vapours/spray. Ensure adequate ventilation during mixing and application. A class P2 dust mask is recommended for use when handling powdered material, and whilst grinding or scabbling floors. For detailed information, refer to the SDS for **Infragrout®**, available at www.crosbe.com.

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.

FOR MORE INFORMATION ON CROSE PRODUCTS PLEASE CONTACT US:

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