CROSfill® 570
Ultra-Flow & Cure

CROSfill® 570* Ultra-Flow & Cure** is a is a rapid set, ultra-high flow, high strength, anchoring and patching grout. It is designed to be mixed to both a paste and a highly flowable consistency. ***CROSfill® 570 Ultra-Flow & Cure is specially formulated to provide incredibly high dimensional stability in both the plastic and hardened state, even at a highly flowable consistency. .

Recommended Uses:

It is particularly suited to setting post holes and spigots for balustrading, where rapid setting is important. It is also suitable for most void filling grouting applications including core holes, grouting under precast panels and concrete sections, hollow block walls, under column bases, anchor bolt filling, and general concrete repair work. It can be used for machine base plates where critical grouting is required, and applications subject to dynamic loads and where continuous vibration is present.

Advantages:

- CROSflow 570 is classified as Non Hazardous with respect to Respirable Crystalline Silica (RCS) as it contains less than 0.1% RCS.
- Suitable for both ultra-high flow and plastic consistency applications.
- Extremely fast setting – sets hard in only 20-30 min.
- Rapid strength gain – 22MPa after 2 hours when mixed to a highly flowable consistency.
- Suitable for use at low temperatures, down as low as 5C.
- Fully recyclable, rain and tear resistant PE bags.

Surface Preparation:

Thorough substrate preparation is essential for achieving adequate adherence of CROSfill® 570. Substrate surfaces including base plates must be free from grease, oil, dust and any loose particles that may interfere with the bond.
After preparation of the substrate surface is complete, remove all dust and debris by vacuuming the surface with a suitable H Class industrial cleaner – must be equipped with a Hepa filter.

Surfaces MUST be pre-soaked with fresh water before grouting, to be classified as Saturated Surface Dry (SSD) – it should be damp, with no free water. Remove any free water immediately before grouting. Formwork should be constructed carefully where required to retain the grout. Carefully seal any gaps with a non-porous material to prevent leakage of grout.
Refer to Crosbe Technical Bulletin "Concrete Subfloor Preparation" for detailed information on preparation of the concrete surface.

Mixing and Temperature Considerations:

CROSfill® 570 must be mechanically mixed using a forced action high shear mixing paddle. Do Not mix by hand.

Mixing of CROSfill® 570 should be carried out in small quantities of 10Kg or less. Mixing of quantities larger than 10Kg, will result in a mix with a very short pot life, and may set before it is able to be used. Mixing smaller quantities must be done with accurate dosing of water and powder, otherwise performance may be compromised.

Water dosage: CROSfill® 570 should be mixed with approximately 40% water by weight of powder:
- 400 ml of water per 1 kg of powder
- 4 L of water per 10 kg of powder

In cold weather conditions (ambient temperature below 20 °C), the amount of water should be reduced in order not to compromise the setting time and strength development of the product. It is also recommended to follow the temperature guidelines below for the powder, water, and substrate to ensure proper application performance:

Low Temperatures: Temperatures below 10°C will severely slow down the cure rate and strength development. If work must proceed under these conditions, we advise that the powder be protected from these temperatures, and the mix water temperature be warmed to a minimum of 20°C to minimise the impact. It is advisable not to grout in temperatures below 5°C, or onto a substrate with a temperature less than 10°C.

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High Temperatures: Temperatures above 30°C will rapidly accelerate the cure rate and cause the product to thicken and lose flow very quickly. It is advisable not to grout under these conditions, but if work must proceed, we advise that the powder be protected from these temperatures and the mix water temperature be cooled to below 20°C to minimise the impact of severe temperature. It is advisable not to grout in temperatures above 35°C, or onto a substrate with a temperature above 30°C.

Material Storage: If possible, the powder should be stored in such a way as to ensure that it is maintained at a temperature of 15–20°C. Storage conditions on job sites are not always ideal, but it is most important to ensure that the material is not exposed long term to temperatures outside the range of 10–30°C.

For more detailed information, refer to the Crosbe Technical Bulletin on Temperature & Environmental Effects.

1. Place the required quantity of potable water into a clean bucket.
2. Add ***CROSfill® 570*** gradually while mixing.
3. Continue mixing for 2 minutes after final addition of ingredients.
4. Do not add too much water or too little water to the mix – use the recommended quantity.
5. Do NOT mix more grout than can be used within the working time of 10 min.

Placement:

Place grout within 10 minutes of mixing. Do not attempt to retemper once the grout has started to stiffen. This timeframe will be shorter at temperatures above 35°C and longer at temperatures below 10°C.
When filling holes with embedded inserts in them - insert the embedded item into the hole, then pour the CROSfill® 570 around it ensuring the hole is filled. Allow to stand for 2-3 minutes then ensure the embedded item is supported until the CROSfill® 570 has set sufficiently to support it on its own (environmental temperature's will dictate this timeframe).

IMPORTANT NOTE:

When using CROSfill® 570 with aluminium, the aluminium needs to be anodized, painted, or sealed to protect it from contact with the grout. The CROSfill® 570 is alkaline in nature and can react with the aluminium. Use in outdoor environments can exacerbate this problem.

Property	Result				
Application Thickness (mm)	10 - 100mm				
Fresh Mix Density	1920 Kg/m^3				
Yield / 20Kg Bag (Litres)	14.5L				
Setting Time (min)	Initial			Final	
	6 - 8			8 - 12	
Compressive Strength (MPa) In accordance with AS1478.2 Appendix A	2 Hr	4 Hr	1 Day	7 Day	28 Day
	>20	>22	>30	>35	>38

Testing Parameters: 40% of water. Material and curing conditions at 23°C / 50% r.h.

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Packaging:

20kg Polyethylene (PE) bags

Shelf Life & Storage:

Shelf Life

The shelf life of the product is 6 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 30C. If stored in excessive temperature conditions, externally exposed to the elements or in high humidity conditions, the shelf life may be reduced.

Safety Data:

CROSflow 570 is classified as Non Hazardous with respect to Respirable Crystalline Silica (RCS) as it contains less than 0.1% RCS. 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 CROSflow® 570, available at www.crosbe.com.

Contact Crosbe:

Sydney – Head Office
ABN: 58 617 674 085
3 Viewbrook Close, Seven Hills NSW 2147 Australia
Ph. 1300 797 560
info@crosbe.com
www.crosbe.com

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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.