

Technical Data Sheet

PT Pan Fill®

PT Pan Fill® is a pourable, trafficable cementitious mortar with exceptional strength and durability. Engineered for efficient filling of post tensioning anchor pans.

Effective for thickness ranging from: 10mm to 100mm. The specially selected aggregates and admixtures in crosbe PT Pan Fill® provide for superior bonding and finishing with typical concrete slabs

Recommended Uses:

Filling of trafficable and non-trafficable Post Tension Pan areas including internal slabs, balconies, car parks and warehouses.

Repair of concrete slabs, particularly where a high build application is required in a single application.

Advantages:

- Crosbe PT Pan Fill is classified as Non Hazardous with respect to Respirable Crystalline Silica (RCS) as it contains less than 0.1% RCS
- High flow properties even at low w/c ratio
- High build in single application
- Resistant to cracking and shrinkage
- Simply mix and pour
- Once trowelled and ground, **PT Pan Fill®** does not require any subsequent finishing
- Rapid gain in strength after 24 hours - 20-25MPa
- Slab grinding possible after 24 hours curing
- Durable, hard wearing finish
- Tear and rain resistant PE bags which are recyclable and reduce wastage

Preparation:

Thorough substrate preparation is essential for achieving adequate bond strength of **PT Pan Fill®**. Substrate



surfaces must be free from grease, oil, dust and any loose particles that may interfere with the bond. A perimeter edge of at least 10mm depth must be provided around the area of application. This is to ensure good strength development of the mortar and to avoid thin edges, which are more susceptible to cracking. Following removal of the pan form and completion of corrosion protection to all exposed steel elements, surfaces **MUST** be pre-soaked with fresh water 3-4 hours before grouting. Remove excess pooled water from the pan prior to pouring **PT Pan Fill**®.

In certain circumstances, the pan may require priming. In this instance, ensure the surface is free from grease, oil, dust and any loose particles that may interfere with the bond. Using a soft brush or broom, prime the prepared concrete area with CROSflow® Primer and allow primer to dry. A second coat of primer may be necessary on areas with very porous surfaces where the initial coat has been completely absorbed. Allow the primer to fully dry to a clean, thin film (approx. 1- 2 hours depending on ambient conditions).

Mixing:

PT Pan Fill® must be mechanically mixed using a forced action high shear mixing paddle.

Consistency	Litres / 20Kg Bag
Pourable / Flowable	2.9-3.1
Dry Pack	2.4-2.6

1. Place the required quantity of potable water (per 20kg bag) into a clean, appropriate mixer. Never overwater the mix.
2. Start mixer and add **PT Pan Fill**® gradually while mixing.
3. After the addition of the last bag, continue mixing for 3-4 minutes to ensure proper activation of additives.
4. Do NOT retemper **PT Pan Fill**® by adding water.

Placement:

- Pour or place the mixed **PT Pan Fill**® into the prepared pan
- Make sure the **PT Pan Fill**® is worked into the corners and edges of the pan with a trowel – maximising contact into the complete area. For a dry pack mix consistency, the mortar may need to be rammed into the pan to get effective coverage into all corners, and along edges
- Finish the surface using a trowel to obtain the desired surface finish
- Coat the filled pan with a suitable curing compound (especially important for pans exposed to high temperature conditions and/or a windy environment)

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 – 25 °C. Working with temperatures outside of this range will also impact the fluidity of the product.

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

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

PT Pan Fill® – Typical Product Data:

Property	Test Method		Result
Compressive Strength: Flow/Pour Consistency	AS 1478.2 Appendix A	1 day	20 - 25 MPa
		7 days	40 - 45 MPa
		28 days	55 - 65 MPa
Compressive Strength: Dry Pack Consistency	AS 1478.2 Appendix A	1 day	35 - 40 MPa
		7 days	70 - 75 MPa
		28 days	>80 MPa
Workability	AS 1478.2 (Flow/Pour consistency)		140%
Fresh Wet Density	AS 1012.5	Flow/Pour Consistency	1980 kg/m ³
		Dry Pack Consistency	2380 kg/m ³
Yield	Approx yield for Flow/Pour consistency per 20kg Bag		11.5 litres
	Approx yield for Dry Pack consistency per 20kg Bag		9.5 litres

Testing Parameters: 14.5% of water (flowable) and 12.5% water (dry pack) Laboratory at: 23±2 °C > 50% RH

Packaging:

20kg Polyethylene (PE) bags, or lined 1000kg bulk 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:

Crosbe PT Pan Fill 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 PT Pan Fill®, 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 manufacturer's 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.

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