Crosbe
P: 1300 797 560
E: info@crosbe.com
W: crosbe.com
ABN: 58 617 674 085
3 Viewbrook Close, Seven Hills

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 filling pans in a single pour. Should not be used at a thickness of less than 10mm. The specially selected aggregates and admixtures in 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, carparks and warehouses.
Repair of concrete slabs, particularly where a high build application is required in a single application.

Advantages:

- PT Pan Fill is classified as Non-Hazardous with respect to Respirable Crystalline Silica (RCS) as it contains less than 0.1 % RCS.
- High build in single application.
- Low shrinkage, making the product more resistant to cracking.
- 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 MPa.
- Slab grinding possible after 24 hours curing.
- Durable, hard-wearing finish.
- Tear and rain resistant PE bags which are recyclable and reduce product loss from damaged packaging.
- Highly accurate and consistent bag weights.

Preparation:

Thorough substrate preparation is essential for achieving adequate bond strength of PT Pan Fill®. Following removal of the pan form, 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.
All exposed steel elements should be cleaned to a bright condition and immediately treated using CROSpatch® ZR Primer. Refer to the TDS for CROSpatch® ZR Primer for more detailed information.

Crosbe
P: 1300 797 560
E: info@crosbe.com
W: crosbe.com
ABN: 58 617 674 085
3 Viewbrook Close, Seven Hills

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 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). Refer to the TDS for CROSflow® Primer for more detailed information.

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 over-water 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 and optimal product performance.
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).

Crosbe
P: 1300 797 560
E: info@crosbe.com
W: crosbe.com
ABN: 58 617 674 085
3 Viewbrook Close, Seven Hills

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, please follow the recommendations detailed below.
Water Temperature: The ideal range for the temperature of water is always 15 – 20 ˚C. In both cold and warm conditions, this range provides a very good basis to work with.
Material Temperature: If possible, it would be ideal to store the powders in such a way as to ensure that they are always maintained at a temperature of 15 – 20 ˚C. Storage conditions on job sites are not always ideal, but it is most important that you ensure that the material is not allowed to be exposed long term, to temperatures outside the range of 10 – 30 ˚C.
Ambient Temperatures: Do not apply at a temperature less than 10 ˚C. In these conditions, it is extremely important to condition the material and water as set out above. Do not apply in temperatures above 35 ˚C. In temperatures above 30 ˚C, consider using cooled water for mixing the product.
Substrate Temperature: Do not apply onto a surface which has a temperature less than 10 ˚C or above 30 ˚C.
For more detailed information, refer to the Crosbe Technical Bulletin on Temperature & Environmental Effects.

PT Pan Fill® – Typical Product Data:

Property	Test Method		Test Result
Compressive Strength Flow/Pour Consistency	AS 1478.2 Appendix A	1 day	> 20 MPa
		7 days	> 40 MPa
		28 days	> 55 MPa
Compressive Strength Dry Pack Consistency		1 day	> 30 MPa
		7 days	> 60 MPa
		28 days	> 70 MPa
Workability	AS 1478.2	Flow/Pour Consistency	160 mm
		Dry Pack Consistency	140 mm
Fresh Wet Density	AS 1012.5	Flow/Pour Consistency	2030 kg/m³
		Dry Pack Consistency	2160 kg/m³
Approx Yield per 20Kg bag	Flow/Pour Consistency		11.5 litres
	Dry Pack Consistency		10.5 litres

Testing Parameters: 15% of water (Pourable) and 12.5% water (dry pack). Material and curing conditions approx. 23°C / 50% RH.

Crosbe
P: 1300 797 560
E: info@crosbe.com
W: crosbe.com
ABN: 58 617 674 085
3 Viewbrook Close, Seven Hills

Packaging:

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

Shelf Life & Storage:

Shelf Life
The shelf life of the product in 20 kg PE bags 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:

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.

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
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.