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Technical Data Sheet

CROSpatch 390 FC
Fairing Coat

CROSpatch® 390 FC is a polymer modified, and fiber reinforced fairing coat. Designed for repairing imperfections in concrete surfaces where a smooth finish is required. **CROSpatch® 390 FC** is suitable for vertical and overhead applications. It is also suitable for internal and external applications from feather to 5mm thickness.

Recommended Uses:

- Internal and external applications.
- As an infill over surface imperfections on concrete, such as blow holes, honeycombing and voids.
- As a fairing coat after application of Crosbe High Build repair mortars.
- Vertical or horizontal patching and repair.
- Residential and commercial application.
- New construction.
- Suitable to be overcoated with decorative coatings on wall surfaces.

Advantages:

- CROSpatch® 390 FC is classified as Non-Hazardous with respect to Respirable Crystalline Silica (RCS) as it contains less than 0.1% RCS.
- Can be applied from a feather coat up to a thickness of 5mm in one application
- Light colour to provide a comparable finish to the existing concrete surface
- Excellent adhesion
- Exceptional trowel application and workability – 20 min working time. Suitable for vertical and overhead applications.
- Can be left exposed or overcoated with a suitable decorative coating.
- Accepting of decorative coatings after 48hrs cure at 23°C – colder weather conditions can impact this timeframe.
- Tear and rain resistant PE bags which are recyclable and reduce product loss from damaged packaging.
- Highly accurate and consistent bag weights.

Surface Preparation:

Concrete surfaces must be structurally sound, clean and dry. Surface must be free from dust, dirt, wax, grease, asphalt, latex and gypsum compounds, adhesives, paint, curing and sealing compounds and other contaminants which may act as a bond breaker. Concrete must be free from laitance, efflorescence and not be subject to hydrostatic pressure. Mechanically prepare the surface using recommended preparation methods such as light scabbling or grit blasting, to provide a roughened, clean, sound, solid and open porous surface. Remove all dust and debris from the surface by vacuuming with a suitable H Class industrial cleaner – must be equipped with a Hepa filter. Substrates repaired with Crosbe CROSpatch repair mortars generally do not require any additional preparations. Ensure the surface is free of dust. The surface should then be thoroughly soaked with clean potable water, and any residual surface water removed immediately prior to application of **CROSpatch® 390 FC.**

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Substrate Priming:

Generally priming is not required if the surface is thoroughly soaked with water.
If priming is required, prime the prepared surface with CROSflow® Primer and allow primer to dry. Allow the primer to fully dry to a clean, thin film (approx. 1- 2 hours depending on ambient conditions) before applying **CROSpatch® 390 FC**. Low temperature can delay the drying time of primer. Do not apply the mortar until the primer has dried thoroughly.

Mixing:

Place the recommended 6.2 to 6.5 litres of potable water into a clean mixing vessel and whilst mixing, slowly add the entire 20kg contents of CROSpatch® 390 FC. Mixing should take place using a forced action high shear mixing paddle, with a mixer capable of stirring at 600rpm. Mix for approximately 2–3 minutes to a lump free consistency. This is very important, to ensure all the ingredients are fully activated
As you must use the material within 20 minutes after mixing, be sure to only mix a quantity that can be used within this period. If mixing smaller quantities is a better approach, ensure accurate dosing of water and powder is carried out using proper scales. For smaller mix quantities, use 0.322L of water for every 1Kg of **CROSpatch® 390 FC**.

- Do NOT overwater the **CROSpatch® 390 FC**, use only the recommended mix water volume.
- Do NOT use a concrete or masonry mixer to mix **CROSpatch® 390 FC**.
- Do NOT mix by hand.
- Do NOT attempt to retemper (remix) mixed product once the working time of 25-30 min has been exceeded.

Application:

Place the mixed **CROSpatch® 390 FC** onto the prepared substrate and spread into place using a steel trowel. **CROSpatch® 390 FC** is a soft paste consistency, so ensure proper pressure is applied to fill all voids in the surface. **CROSpatch® 390 FC** can be applied up to 5mm thick in one application. Any applications requiring an infill of greater than 5mm, should be filled using either CROSpatch® 340 HB or CROSpatch® 370 HB.
The consistency of freshly mixed **CROSpatch® 390 FC** is designed to allow for easy trowel application on vertical and horizontal substrates.
In high temperature conditions, application of a suitable curing compound may be necessary to avoid premature surface drying.

Set Time:

Allow a cure time of up to 1 -2 hours at 23°C to be touch dry.

Overcoating with decorative finishes:

CROSpatch® 390 FC is a durable finish, designed to provide long term protection to the background substrate it has been applied to. In certain applications, a decorative coating will be required to provide an aesthetic finish to the overall area, including the repaired section. If any curing compounds were applied to aid in curing of the repair, these need to be removed first. Crosbe recommend the use any water-based coating systems, which are suitable to be used in the environment which they are being applied, and the preparation of the repaired section should be in line with normal concrete preparation methods. If in doubt, contact Crosbe Technical Services for additional advice.

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Coverage:

20kg bag of **CROSpatch® 390 FC** will cover approximately 14m2 at 1mm thickness, and 4.7m2 at 3mm thickness.

Clean Up:

Wash all tools thoroughly in clean water immediately after use.

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 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 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.

CROSpatch 390 FC - Product Data:

Property		Test Result
Working Time at 23°C		20 minutes (at 6.4 L water addition)
Fresh Mix Density (Kg/m3)		1.85
Yield (L/20Kg bag)		14 L@ 6.4L water addition
Bags per cubic metre		70
Set Time at 23°C (depending on final thickness)		Approx. 2 hours
Compressive Strength (MPa)	7 days	>20
	28 days	>30
Flexural Strength (MPa)	7 days	5
	28 days	7
Application Thickness		Minimum: Feather Edge
		Maximum: 3 - 5mm

Testing Parameters: 32% of water. Laboratory at: 23±2˚C > 50% RH. 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.

Precautions:

CROSpatch® 390 FC is not suitable for use in applications subject to foot or vehicular traffic.

Packaging:

20kg Polyethylene (PE) bags.

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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, unopened and undamaged PE bags, with 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:

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 **CROSpatch® 390 FC**, available at www.crosbe.com.

Contact Crosbe:

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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.