

PATCHFIX FINE RENDER

SINGLE COMPONENT CEMENTITIOUS BASED FINE FAIRING MORTAR

15 November 2017

YOUR SMART ADVANTAGES

- Single component system of pre blended powder, simply add water and mix
- Excellent bond strength and adhesion to concrete or masonry surface
- Feather edging capability
- Shrinkage compensated allows for long term dimensional stability
- Easy to use and apply
- For internal or external use
- Durable, low water permeation
- High ultimate strength
- Can be used in vertical, horizontal and overhead application
- Can be coated with Bostik range of protective coatings
- Australian Made

DESCRIPTION

Bostik Patchfix Render Fine is a polymer modified fairing mortar for applications in thin layers. It produces a natural concrete Grey appearance to concrete or masonry surfaces. It can be applied from feather edge up to a maximum thickness of 5mm. **Bostik Patchfix Render Fine** is shrinkage compensated and based on hydraulic binders, high-grade quartz sand and synthetic polymers

USES

Thin layer patching for vertical, horizontal and overhead applications.
 Rendering over porous or damage concrete structures such as walls, water tanks, and sewerage and water treatment plants.
 Levelling of uneven surfaces prior to coating.
 Repairs where high compressive strength and abrasion resistance required.
 Repairing honeycomb concrete, cracks and pinholes
 Patching of Tilt slab and pre-cast concrete.
 As of render over brickwork, concrete & other common masonry is required.
 As an integral base for application of Bostik range of protective coatings.
 Applications requiring thin build of feather edge to 5mm in one application.

PRODUCT CHARACTERISTICS

Colour	Grey
Size	20kg
Item Number	30840155

APPLICATION INSTRUCTIONS

Substrate and Surface Preparation

Surfaces to which **Bostik Patchfix Render Fine** are applied, should be clean, sound and free of dust and loose particles. Cement laitance, oil, grease, mould release oil or curing compounds must be removed from concrete surfaces by using a wire brush, bush hammer, scabble, grit blasting or other means. Ensure that steel rebar's are also clean from grease, oil or rust. When repairing spalled or deteriorate concrete, ensure that the concrete has been cut back to sound material. Steel surfaces should be degreased with a suitable solvent or treated by grit blasting. In many cases where corrosion is present, wire brushing to a clean bright surface is sufficient. All absorbent surfaces to be treated with **Bostik Patchfix Render Fine** must be thoroughly dampened to saturate all pores. During application, the temperature of the substrate should not be below 5°C. To avoid high surface temperatures, it is advised to shade areas before, during and after application.

Priming

Pre soak areas in which **Bostik Patchfix Render Fine** is to be applied with water prior to application. For very porous substrates it is essential that after pre soaking (no free water) the substrate **Bostik Bond 'N' Cure** be applied to the substrate and allowed to reach a tacky consistency prior to the application of **Bostik Patchfix Render Fine**.

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MIXING

Small quantities (up to 5kg) can be mixed by hand, using a suitable mixing drum or bucket and trowel or mixing drill with stirrer, after ingredients have been volume batched. Volume batching method – measure 5 volumes of:

Bostik Patchfix Render Fine (loose filled to excess in container and struck off level with top) and 1 volume of clean, drinking quality water. Place water in a suitable mixing vessel and add **Bostik Patchfix Render Fine** whilst continuously mixing with trowel in one operation for 3 to 5 minutes until fully homogenous, uniform and lump free. Greater quantities of **Bostik Patchfix Render Fine** must be mixed with a mechanical forced action mixer with a high shear stirrer. Depending on the ambient temperature and the desired consistency, the amount of water required may be varied slightly but should remain between the 7-8 litres per 20kg bag of **Bostik Patchfix Render Fine**. In all cases **Bostik Patchfix Render Fine** must be added to the water.

DO NOT MIX LARGE QUANTITIES BY HAND

APPLICATION

Apply the mixed **Bostik Patchfix Render Fine** to the prepared substrate by steel trowel from a feather edge up to 5mm thickness. Placement should be carried out with a minimum of working and be allowed to partly set before. Finally troweling to a smooth finish. If a very smooth finish is required, a steel trowel should be used. Excess water on the surface will result in surface crazing and cracks. Do not proceed with the application when rainfall is imminent unless in a sheltered or protected situation. DO NOT ADD EXCESS WATER. Note: Maximum applied thickness of **Bostik Patchfix Render Fine** is 5mm. **Bostik Patchfix Render Fine** may be applied greater than 5mm up to 15mm in isolated smaller patches. Consult Bostik office for additional information.

FINISHING

Bostik Patchfix Render Fine is finished by striking off with a straight edge and closing with a steel float. Wooden or plastic floats or damp sponges may be used to achieve the desired surface texture. The completed surface should not be overworked.

Low Temperature Working

In cold conditions down to 5°C, the use of warm water (up to 30°C) is advised to accelerate strength development. Normal precautions for winter working with cementitious materials should then be adopted. The material should not be applied when the substrate or air temperature is 5°C and falling.

High Temperature Working

At ambient temperatures above 35°C, the material should not be used as this will cause premature setting and make working with the product difficult.

CURING

Bostik Patchfix Render Fine does require curing. In hot, dry windy condition all cementitious-based mortars must be protected against excessive rapid surface drying and evaporation. **Bostik Patchfix Render Fine** must be cured immediately after finishing in accordance with good concrete practice. The use of **Bostik Bond 'N' Cure** sprayed, brushed or rolled onto the surface of the finished **Bostik Patchfix Concrete** in a continuous film, recommended. The **Bostik Bond 'N' Cure** should be applied at coverage of 4-5m² per litre

and should be applied immediately after final trowel. In very extreme temperatures and drying conditions, supplementary curing with polythene sheeting, taped down at the edges, may be required. Large areas should be cured as trowelling progresses (0.5m² at a time) without waiting for completion of the entire area.

APPLICATION OF COATING

Bostik Patchfix Render Fine, when cured, has good resistance to water. However, if areas are subject to continuous water immersion or chemical attack from solvents or organic acids etc., **Bostik Patchfix Render Fine** should be protected using Bostik's range of coatings such as **Bostik Guardcote WB**, **Bostik Epoxycote WB** or **Bostik Paveseal SB** depending on aesthetic and performance requirements. The required epoxy or acrylic coating will act as a sealer and dust proofer which may be easily cleaned and is resistant to a range of oil and chemicals depending on the choice of coating. To ensure a long lasting highly protective coating, it is recommended that two coats be applied. The first coat should be applied 12-24 hours after the placement of **Bostik Patchfix Render Fine**. The second coat may be applied the following day in accordance with the selected coating's application instructions.

COVERAGE

The approximate coverage is obtained if mixed in accordance with recommended procedures and accurately measured water content. A 20kg bag of **Bostik Patchfix Render Fine** with 8 litres of water will yield approximately 17 litres. Approximately 77 bags required per cubic metre.

POT LIFE

Setting begins after 30-45 minutes (at 25°C substrate and ambient temperature) and ends after another 50-60 minutes. The working period depends very much on the product temperature and on the amount of mixing water added. Therefore, the time given above should be regarded as a guideline. The lower the temperature, the longer the setting time. The less water added the shorter the setting time. The addition of water to the mortar after it has started to stiffen is not recommended and the product should be discarded.

Important Notes

- **Bostik Patchfix Render Fine** should not be used when the temperature is below 5°C and greater than 35°C.
- For concrete substrates subject to rising damp or moisture, a moisture barrier is required use **Bostik Moisture Seal**. Where a substrate is subjected to total immersion it is recommended that **Bostik Techflow Epoxy Grout** be used as a primer. (Contact Bostik for Technical Data Sheet)
- New concrete surfaces must be at least 14 days old prior to application of **Bostik Patchfix Render Fine**
- To avoid rapid drying protect **Bostik Patchfix Render Fine** from direct sunlight or drying winds during actual application, and while curing for up to 24 hours.
- If the substrate onto which **Bostik Patchfix Render Fine** is applied moves or cracks, reflective cracking will occur in the **Bostik Patchfix Render Fine**.
- Not intended as a horizontal trafficable-wearing surface. (Refer to Bostik Office for the **Bostik Patchfix** or **Bostik Ultralevel** range of product best suited to trafficable applications).

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BOSTIK CO OPERATIVE TEST PROGRAMME

Bostik offer a service in which a program has been established to eliminate potential field problems by pretesting Bostik adhesives with samples of building materials to which the adhesive will be applied. This service is available on large projects where pre application testing will aid in determining the proper surface preparation method to achieve optimum adhesion. Consult a Bostik representative for further information.

PROPERTIES

Compressive Strength

Tested in accordance to AS10129.9, AS2073 @ 20°C

Age	Compressive Strength
1 day	20 MPa
3 days	26 MPa
28 days	30 MPa

Flexural Strength

Tested in accordance with ASTM C348-86 at 20°C

Age	Flexural Strength
28 days	6.5 MPa

Bond Strength

Tested in accordance to ASTM C882 – 1987 Slant/Shear method

Age	Strength
7 days	> 2 MPa
28 days	> 5 MPa

Setting Times

Vicat setting times at 20°C

Initial Set	20°C 35-45 minutes 30°C 20-30 minutes
Final Set	20°C 45-60 minutes 30°C 30-40 minutes

Working Time

Temperature	Times (minutes)
10°C	55 – 60 minutes
20°C	25 – 30 minutes
30°C	15 – 20 minutes

Application Thickness per Coat

Minimum	Feather Edge
Maximum	5 mm

Elastic Modulus

12.0Gpa approx.

Coefficient of Thermal Expansion

10 – 13 X 10⁻⁶ mm/°C

Fresh Wet Density

1900 kg/m³ approximately (tested in accordance with AS1012.5)

Traffic Time/Overcoating @ 25°C 50% Rh

Light Foot Traffic	24 hours
Protective and architectural coating	24 hours

Application Temperature

Minimum	5°C
Maximum	35°C

Drying/Shrinkage Time

Tested in accordance with AS1012.13

Time (days)	Shrinkage (Microstrain)
7 days	<280 Microstrain
28 days	<350 Microstrain
56 days	<450 Microstrain

Abrasion Resistance

Tested in accordance with ASTM C501 – 1984 (Taber Abrasion)

Age	Wear Index
28 days	120

Comparison Chart Of Abrasion Resistance

SURFACE	Wear Index	Classification (resistance to wear)
Ceramic tile	142	Very high
(Bassalt) Bluestone	39	Poor
Concrete 30MPa	36	Poor
Concrete 60MPa	71	Low
Cast Iron	99	Low-High

Water Requirement Per 20 Kg Bag

7.0 -8.0 Litres.

STORAGE & SHELF LIFE

Bostik Patchfix Render Fine has a shelf life of approximately 8 months if kept in a dry environment completely away from moisture.

SAFETY PRECAUTIONS

SEE THE MATERIAL SAFETY DATA SHEET FOR ADDITIONAL INFORMATION.

EMERGENCY INFORMATION: 1800 033 111 (ALL HOURS)
MSDS can be downloaded from www.bostik.com.au

CLEAN- UP

Bostik Patchfix Render Fine should be removed from tools and equipment with clean water immediately after use.

PACKAGING

Bostik Patchfix Render Fine is supplied in a 20kg polylined bag.

FIRE

Bostik Patchfix Render Fine is non flammable

VOC – 1 g/Lt

voccertificates.australia@bostik.com

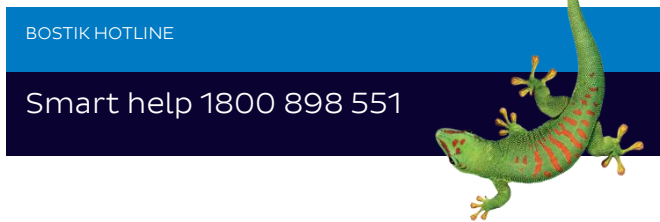
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PRECAUTIONS IN USE

Complete details on each of the products mentioned are available on the product Safety Data Sheets. To ensure no harm is caused to persons using Bostik products, it is recommended that all concerned read the appropriate Safety Data Sheets. Visit www.bostik.com/au for copies.

For emergency information contact the Poisons Information Centre, phone 131 126 or the Emergency Response Service, phone 1800 033 111.



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