

Concrete Repair

Fairing & Smoothing Mortar 0-5mm

Concrete Repair Fairing & Smoothing Mortar 0-5mm, is a ready to use mortar for patching, smoothing and repair in thin layers from 0-5mm, with a natural concrete grey appearance to concrete or masonry surfaces.

This compound will adhere well to most cementitious or masonry surfaces provided the surface is clean and film free and has some porosity for bond to develop. It is polymer modified, based on hydraulic binders, high grade quartz sand and synthetic polymers and is shrinkage compensated.

Advantages

- Excellent bond strength and adhesion and bond to concrete or masonry surfaces
- Feather edging
- Shrinkage compensated
- Easy to use and apply
- No primer or curing compound is required for most work
- For internal or external use
- Durable, low water permeation
- Can be used in vertical, horizontal and overhead applications



Product Attributes

Uses

- Recommended for:*
- Thin layer patching for vertical, horizontal and overhead applications.
 - Rendering over porous or damaged concrete structures.
 - Levelling of uneven surfaces prior to coating.
 - Repairs where uniform concrete colour is required.
 - Repairing honeycomb concrete, cracks and pinholes.
 - Tilt slab and precast concrete.
 - Applications over existing concrete or masonry surfaces.
 - Applications requiring a thin build of fairing mortar, up to 5mm.
- For more information on suitable uses or uses that are not listed above, please contact a Westbuild representative.

Yield

- The approximate yields are obtained if mixed in accordance with the recommended procedures and accurately measured water content.
- A 8kg pail of Concrete Repair - Fairing & Smoothing Mortar 0-5mm with 2.3 litres of water will yield approximately 5.2 litres.

Performance

- Residential, commercial and light industrial.



- Coverage** 195 pails required per cubic metre.
- Packaging** 8kg pail (32 pails/pallet). 8kg Concrete Repair - Fairing & Smoothing Mortar 0-5mm supplied in Westbuild Rainproof packaging within a plastic bucket. The bucket can be used as a mixing bucket and for storage of any remaining un-mixed Concrete Repair - Fairing & Smoothing Mortar 0-5mm still in the bag.
- Shelf Life & Storage** Concrete Repair - Fairing & Smoothing Mortar 0-5mm, in its unopened packaging can be stored outside in any weather conditions and can be stored for extended periods of time within its rainproof packaging.

Technical Data

Product Identity

- Form** Powder
- Fresh Wet Density** 1900 kg/m3 approximate. (Tested in accordance to AS1012.5)

Compressive Strength

Age	Compressive Strength
28 days	> 25 MPa

Tested in accordance with AS1012.9 at 20°C

Flexural Strength

Age	Flexural Strength
28 days	> 7 MPa

Tested in accordance with AS1012.9 at 20°C

Bond Strength

Age	Bond Strength
28 days	> 2 MPa

Tested in accordance with AS1012.9 at 20°C

Pot Life

Setting begins after 20-40 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.

Setting Time

Initial Set	20°C	50 minutes
	30°C	35 – 40 minutes
Final Set	20°C	60 minutes
	30°C	45 – 50 minutes

Application properties are dependent on temperature and relative humidity.

Traffic Time

Foot Traffic	2 Hours
Vehicle Traffic	12 Hours
Time to cover with floor covering (overlay)	< 10mm 12 – 18 Hours > 10mm 24 Hours
Check moisture content	Max 5.5% prior to installation

Typical setting times at 20°C



Installation

Surface Preparation Surfaces to which Concrete Repair - Fairing & Smoothing Mortar 0-5mm are applied, should be clean, sound, free of dust and loose particles. Cement laitance, oil, grease, mold release oil or curing compounds must be removed from concrete or masonry surfaces by using a wire brush, bush hammer, scabber, grit blaster or other means. During application, the temperature of the substrate should not be below 5°C. To avoid high substrate temperatures, it is advised to shade area during the period of application.

Priming Concrete Repair - Fairing & Smoothing Mortar 0-5mm is designed to adhere to most clean cementitious or masonry surfaces, without the need for priming where bond is required to the substrate. Where high impact or repetitious loading is applied, Westbuild PRO™ Flexible Additive Fortifier & Primer should be applied and allowed to reach a tacky state prior application.

At elevated temperatures it is desirable to presoak areas in which Concrete Repair - Fairing & Smoothing Mortar 0-5mm is to be applied with water prior to application. For very porous substrates it is essential that after presoaking the substrate, Westbuild PRO™ Flexible Additive Fortifier & Primer be applied to the substrate and allowed to reach a tacky consistency prior to application of Concrete Repair - Fairing & Smoothing Mortar 0-5mm.

Mixing Care should be taken to ensure that the Concrete Repair - Fairing & Smoothing Mortar 0-5mm is thoroughly mixed. Small quantities (up to 2kg) can be mixed by hand using a suitable mixing drum or bucket. When mixing small quantities by hand the maximum should be volume batched.

DO NOT MIX MORE THAN 2-3KG BY HAND.

Greater quantities of Concrete Repair - Fairing & Smoothing Mortar 0-5mm must be mixed with a mechanical forced action mixer with a high shear stirrer.

Mix until fully homogeneous and uniform.

When mixing complete pails, add between 2.3 to 2.5 litres of drinking quality water into the mixing vessel and, with the mixer in operation, add one full 8kg pail of Concrete Repair - Fairing & Smoothing Mortar 0-5mm and mix for 3 to 5 minutes until fully homogeneous, uniform and lump free.

Water Ratio Depending on the ambient temperature and the desired consistency, the amount of water required may vary slightly but should not exceed 2.5 litres per 8kg pail of Concrete Repair - Fairing & Smoothing Mortar 0-5mm. Excess mixing water may result in surface crazing, cracking as well as reduced strength and adhesion.

	Concrete Repair - Fairing & Smoothing Mortar 0-5mm	Drinking Water
Water Quantity	8kg	2.3 – 2.5 litres

Note: In all cases Concrete Repair - Fairing & Smoothing Mortar 0-5mm powder must be added to water.



Application

Application Thickness

Thickness	Minimum	Feather Edge
	Maximum	5mm

Application Temperature

Temperature	Minimum	5°C
	Maximum	35°C

Low Temperature Application	High Temperature Application
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 substrates or air temperature is 5°C and falling.	At temperatures above 35°C, the material should not be used as this will cause premature setting and make working with the product difficult.

Pot Life

Setting begins after 20-40 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 times 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.

Placing

Apply the mixed Concrete Repair - Fairing & Smoothing Mortar 0-5mm to the prepared substrate by steel trowel from a feather-edge up to 5mm thickness. It should be applied with the minimum of working and be allowed to partly set before finally troweling to finish. If a very smooth finish is required, a steel trowel should be used. Do not proceed with the application when rainfall is imminent unless in a sheltered or protected situation.
DO NOT ADD EXCESS WATER.

Finishing

Concrete Repair - Fairing & Smoothing Mortar 0-5mm should be finished with a steel trowel.

Curing

In normal conditions, Concrete Repair - Fairing & Smoothing Mortar 0-5mm does not normally require curing in the majority of applications.

In hot, dry windy conditions, Concrete Repair - Fairing & Smoothing Mortar 0-5mm must be cured immediately after finishing in accordance with good concrete practice. Under harsh conditions, cementitious based mortars must be protected against rapid surface drying and evaporation and protective measures should be taken to reduce water loss.

When maximum curing is required, the use of Westbuild PRO™ Flexible Additive Fortifier & Primer or an acrylic based sealer sprayed, brushed or rolled on the surface of the finished Concrete Repair - Fairing & Smoothing Mortar 0-5mm in a continuous



film. Westbuild PRO™ Flexible Additive Fortifier & Primer or an acrylic based sealer should be applied at coverage of 4-5m² per litre and should be applied immediately after final trowel.

In very extreme temperatures Concrete Repair - Fairing & Smoothing Mortar 0-5mm should not be applied.

Applying Coatings

Concrete Repair - Fairing & Smoothing Mortar 0-5mm, when cured, has excellent resistance to water. However, if areas are subject to continuous water immersion or chemical attack from solvents or acids, suitable coatings should be applied. To ensure a long lasting highly protective coating, it is recommended that up to two coats may be applied. The first coat should be applied 12-24 hours after the Concrete Repair - Fairing & Smoothing Mortar 0-5mm has been applied. The second coat may be applied the following day or as soon as the first coat has dried.

Attention

Concrete Repair - Fairing & Smoothing Mortar 0-5mm should not be used when the temperature is below 5°C or greater than 35°C.

Concrete Repair - Fairing & Smoothing Mortar 0-5mm should not be applied greater than 5mm thickness in any given application.

For concrete substrates subject to rising damp or moisture, a waterproof membrane is required.

New concrete surfaces must be at least 7 days old prior to application of Concrete Repair - Fairing & Smoothing Mortar 0-5mm.

To avoid drying too rapidly, protect applied Concrete Repair - Fairing & Smoothing Mortar 0-5mm from direct sunlight or drying winds during actual application, and while curing for up to 24 hours.

If the substrate onto which Concrete Repair - Fairing & Smoothing Mortar 0-5mm is applied moves or cracks, reflective cracking will occur in the Concrete Repair - Fairing & Smoothing Mortar 0-5mm.

Risk

All cement-based products are alkaline and can cause irritation. This product is considered hazardous according to criteria of Work Safe Australia. A dust mask should be worn when handling the material. Continuous or extended contact with this product may cause irritation, as well as respiratory issues such as bronchitis or silicosis. Contact with the eyes and repeated and prolonged skin contact should be avoided.

Safety Precautions

A dust mask should be worn when handling the material. Contact with the eyes and repeated and prolonged skin contact should be avoided.

Technical/Safety Data

TECHNICAL DATA SHEETS (TDS) AND SAFETY DATA SHEETS (SDS) are available on request and should always be referenced before handling this product and before the commencement of any works. A WESTBUILD Representative is always available should you require further information. Visit our website for further information on the use of this product and suitability for your application.



Related Products

Westbuild PRO™ Flexible Additive Fortifier & Primer
Concrete Repair - High Build Mortar 10-100mm
Ultra Light Weight (ULW) Repair Mortar
Level It - Self Smoothing, Self Levelling Underlay

It is the responsibility of the user to ensure that products are used in accordance with the Westbuild Products Pty Ltd instructions for use, and Australian Standard procedures in applications for which they are intended. Westbuild Products Pty Ltd and its associated companies cannot guarantee and are not liable for the use of their products outside of Australian Standards guidelines and the Westbuild Products Pty Ltd instructions for use. The technical details and recommendations contained in this data sheet are given in good faith and represent the best of our knowledge at time of printing. Freedom from patent restrictions should not be assumed.

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