

Lightweight Repair Mortar

Fast-setting repair mortar

Lightweight Repair Mortar is a fast setting polymer-modified cementitious repair compound, which rapidly gains strength within 24 hrs. **Lightweight Repair Mortar** is ideal for repairing and refacing concrete surfaces. It is protein free and has a low odour.

Ease of application combined with rapid strength gain enables the desired floor finish to be applied within 24 hrs of **Lightweight Repair Mortar** application.

USES

Use **Lightweight Repair Mortar** to repair, patch or resurface concrete substrates.

SPECIAL PROPERTIES

- Protein free
- Fast setting
- Rapid strength gain
- Suitable for trafficking within 1.5 to 2 hrs
- Feather-edge up to 20mm

METHOD OF USE

Preparation

The surface should be free from grease, dirt, dust and any loose material before the application of **Lightweight Repair Mortar** proceeds. The surface should be lightly abraded for small areas, a wire brush or angle grinder can be used. However, over larger areas shot blasting is recommended. In the case of concrete, cement / sand, brickwork etc, the surface will generally not need priming unless it is very absorbent. In these circumstances one coat of Screed Primer diluted 1 part primer to 3 parts water should be applied to the surface using a brush or soft broom. (See technical data sheet for application rate.) The primer must be touch dry before the application of the **Lightweight Repair Mortar** proceeds. The application of one coat of Primer should also be applied if the surface is not particularly absorbent i.e. quarry, glazed tiles etc. *This material is not suitable for application over asphalt, wood, chipboard, parquet flooring.*

When required a damp proof membrane should be applied in accordance with the manufacturers instructions and the surface scattered with kiln dry sand (i.e. 0.4-0.8mm) before application of the **Lightweight Repair Mortar**.

Application

Add one 20 kg bag of **Lightweight Repair Mortar** to 4-4.5 litres of water in a clean mixing vessel and mix by hand or by using a slow speed drill fitted with an Armorex mixing paddle. Mix until a smooth, lump-free, uniform mortar is achieved.

Apply the **Lightweight Repair Mortar** onto the surface and spread to the required thickness using a steel float. Trowel the surface until a smooth finish is obtained.

The minimum application and curing temperature is 5°C. However, best results will be obtained at temperatures of between 10°C and 25°C. Below this temperature, the workability and initial / final set will be extended resulting in a reduction in compressive strength @ 24 hrs. At higher temperatures the working time will be reduced. Do not mix more material than can be applied within the working time of 15 minutes obtained at 20°C.

TECHNICAL DATA

Packaging:	Lightweight Repair Mortar (cementitious powder):	20 kg bag
Coverage:	Lightweight Repair Mortar powder:	1.6 kg /mm/ m ² of thickness
	Consumption	
	<i>Screed Primer (neat)</i>	0.06 kg/m ² of neat primer per coat
	Usage	
	<i>(diluted 1 part primer to 3 parts water)</i>	0.24 kg/m ² of diluted primer is applied per coat
Mixing Ratio:	20 kg of Lightweight Repair Mortar powder should be added to 4-4.5 litres of clean potable water.	
Bulk Density of powder :	approximately 1350-1400 kg/m ³	
Wet Density:	approximately 1950-2050 kg/m ³	
Minimum depth:	< 1mm	
Maximum horizontal depth:	20mm. For applications over 20mm, the Lightweight Repair Mortar should be allowed to cure for 1.5-2hrs and then subsequently primed with one coat of Screed Primer diluted 1:3 with water. Once the primer is touch dry the application of a further layer up to 20mm can be applied in order to achieve the overall thickness required.	
Adhesive application	Adhesives should be applied in accordance with the manufacturer's instructions.	

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- Workability:** 15 minutes @ 20°C. This figure will be reduced at higher temperatures and extended at lower temperatures
- Initial set:** 20 minutes @ 20°C. This figure will be reduced at higher temperatures and extended at lower temperatures
- Final Set:** 60 minutes @ 20°C. This figure will be reduced at higher temperatures and extended at lower temperatures
- Compressive Strength:** Tested to BS 1881:Part 116:1983
19 N/mm² @ 24 hours
>35 N/mm² @ 7 days
>40 N/mm² @ 28 days
- Storage:** 12 months minimum when stored in cool, dry conditions in original, unopened bags.
- Safety:** **Lightweight Repair Mortar** contains a minimum quantity of respirable silica (> 0.5%) and cement which is alkaline when in contact with water. Dust masks should be worn during mixing and prolonged exposure to skin should be avoided. For more detailed information reference should be made to the **Lightweight Repair Mortar** Material Safety Data Sheet.

SPECIFICATION CLAUSE

The compound shall be a quick setting cementitious mortar and shall have a compressive strength > 35 N/mm² at 7 days and > 40N/mm² at 28 days. Lightweight Repair Mortar will have an initial set at 20°C minutes and be applied to a maximum thickness of 20mm on horizontal surfaces. The supplier shall be a Registered Firm to ISO 9001.