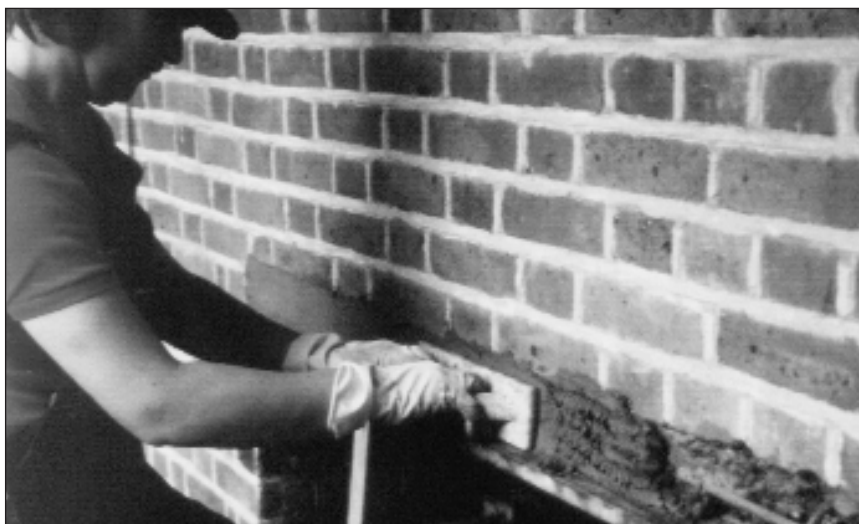


Preblended polymer modified
cementitious repair mortar

multifix repair mortar

(from 2006) **weber.multifix RM55**



About this product

multifix repair mortar is a general purpose mortar for the repair of concrete, to both horizontal and vertical surfaces.

multifix keycoat is a bonding slurry for the **repair mortar** and other **multifix** products.

Technical data

25 kg **multifix repair mortar** with 2.5 litres of water cured at 20°C and 50–60% RH.

	3 days	7 days	28 days
Compressive strength	30 N/mm ²	40 N/mm ²	55 N/mm ²
Tensile strength	—	3.3 N/mm ²	4.4 N/mm ²
Flexural strength	—	6.7 N/mm ²	9.2 N/mm ²
Bond strength	1.8 N/mm ²	2.1 N/mm ²	2.2 N/mm ²
Plastic density	2200 kg/m ³		

Permeability

Tests carried out by Queens University Belfast using CLAM test. Samples soaked for 24 hours prior to test (permeability coefficient only)

	Permeability coefficient (m/sec)	Initial absorption (m/sec)
multifix repair mortar with 2.5 litres water per 25 kg	1.35 x 10 ⁻¹⁴	12.2 x 10 ⁻¹⁴
OPC concrete mix, with w/c ratio 0.6	48 x 10 ⁻¹⁴	211 x 10 ⁻¹⁴
OPC concrete mix, with w/c ratio 0.4	2.3 x 10 ⁻¹⁴	19.6 x 10 ⁻¹⁴

Air permeability by Figg Permeability Method – 570 seconds. Ref: Magazine of Concrete Research Vol 36, No. 129, Dec. 1984.

Uses

- General purpose patch repairs
- Patch repairs to concrete floors
- Thin bonded vertical repairs to concrete

Constraints

For deep repairs in excess of 100 mm, **weber** has other products available. Please consult the Technical Department.

Features and benefits

- ▲ Factory pre-blended products eliminate on site mixing errors
- ▲ No problems of quality, availability and grading of local cements and aggregates
- ▲ Resistant to water penetration
- ▲ Excellent adhesion
- ▲ Faster strength development than ordinary sand-cement mortar
- ▲ Manufactured under BSI Quality Assurance Scheme ISO 9002 (1994)
- ▲ Agrément approved as part of the **multifix** Concrete Repair System

Chemical resistance

multifix repair mortar has greater chemical resistance to mild acid attack than normal sand/cement mixes, but in situations liable to chemical spillage the **certite** or **epoxy plus** resin-based systems are more suitable. Please contact our Technical Department for details.

multisifix repair mortar

Preparation

Concrete

Concrete substrates must be adequately prepared either by use of a suitable mechanical method such as scabbling, grit blasting, needle gunning, or other appropriate means.

Old concrete surfaces contaminated with oil or grease require suitable preparation such as steam cleaning in conjunction with a suitable detergent. Care must be taken to ensure that the oil or grease is removed from the surface and not simply spread over a large area.

New concrete should be cured for at least 14 days using an approved curing technique e.g. polythene film. Spray-on curing membranes are unsuitable for use on substrates where **multisifix** mixes are to be applied.

Where repairs are carried out, feather edging is not recommended; therefore, the perimeter of area to be repaired should be cut back to provide a square edge, minimum 10 mm.

Before application of **multisifix keycoat**, the concrete should be thoroughly wetted but all surface water must be removed.

Steel

Steel reinforcement which has been exposed during preparation should be completely uncovered to the full circumference of the bar. Rust scale, corrosion products and other deposits shall be removed from reinforcement by grit blasting or other approved methods to achieve first quality to BS 7079: Part A1 (equivalent to Swedish Standard SA2^{1/2}).

Steel cleaning shall include hidden faces at the back of bars and at intersections, and the bonding agent/holding primer applied immediately after. In many instances where chloride-induced corrosion is absent, and where grit blasting is not practical, wire brushing or other techniques may be acceptable to the engineer, provided that care is taken not to polish the surfaces of the rust on the steel.

Mixing

multisifix keycoat bonding slurry

Mix in the ratio of 2 volumes of **keycoat** to 1 volume of clean water. Slowly add powder to water mixing continuously to a smooth creamy consistency.

Apply the slurry by a stiff brush and scrub well in. **The slurry must be tacky when applying the multisifix repair mortar.**

In hot weather the slurry dries quickly and, therefore, it is advisable that the **repair mortar** is mixed ready for application before the bonding slurry is applied. If the **multisifix keycoat** does dry it must be removed mechanically and a further coat applied.

multisifix repair mortar

multisifix repair mortar must be mixed in a forced action mixer such as a Mixal or Creteangle.

Slowly add the contents of a 25 kg bag of **multisifix repair mortar** to 2.5 litres of clean water until a uniform colour and consistency is attained.

Application

Apply the mortar to the tacky **multisifix keycoat**, compact into position and finish with a steel float. For vertical or soffit repairs, carefully tamp the mortar into position in layers of about 10 – 12 mm, and allow to reach initial set before applying the next layers of **multisifix keycoat** and **repair mortar**.

When replacing cover on steel reinforcement, the minimum cover should be 12 mm. However, where this is not practical, for long term reinforcement protection where low cover replacement is undertaken (this must be a minimum of 6 mm thickness) we would recommend that all repairs are overcoated with a protective coating appropriate for the service conditions: please contact our Technical Department.

On small floor repairs cut out the damaged concrete to ensure the repair is toed into the surrounding concrete and it is recommended

that the surrounding concrete is sealed with **hardac polyurethane** or **acrylic sealer**, which are low viscosity in-surface sealers, to reduce the problems of degradation of concrete adjacent to the repair.

After carrying out vertical and soffit repairs, clean the surface, apply one coat of **sealercoat** to stabilise and then two coats of an anticarbonation coating such as **multisicoat smooth** or **multisicoat elastomeric**.

Curing

Good curing is essential. Immediately after the finishing operation, apply **ritecure 90** by spray. Do not use **ritecure** between layers or where a finishing coat is to be applied, but spray with **sealercoat** and cover with close contact polythene sheet.

Packaging and coverage

multisifix repair mortar is supplied in a 25 kg polylined bag which yields 12.5 litres when mixed with 2.5 litres clean water.

Coverages

repair mortar: 1 m² at 12.5 mm thick

multisifix keycoat is supplied in 25 kg polylined bags which when mixed with 9 litres clean water will cover an area of 25 m²

Storage and shelf life

When stored unopened in a dry place at temperatures above 5°C, shelf life is 12 months from date of manufacture.

Precautions

Do not add water above quoted recommendations. Use only clean water; do not use water which has a dissolved salt content.

Do not place when substrate temperature is below 5°C or when ambient temperature is below 5°C. **Protect from frost.**

When fully cured **multisifix keycoat** and **repair mortar** are stable to freeze thaw conditions but should not be applied when conditions are not suitable for good concreting practice.

Health and safety

Contains cement (Contains chromium (VI). May produce an allergic reaction). Harmful by inhalation. Irritating to eyes and skin. Keep out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical help. After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective clothing, gloves and eye/face protection.

For further information, please request the Material Safety Data Sheet for this product.

To the best of our knowledge and belief, this information is true and accurate, but as conditions of use and any labour involved are beyond our control, the end user must satisfy himself by prior testing that the product is suitable for his specific application, and no responsibility can be accepted, or any warranty given by our Representatives, Agents or Distributors. Products are sold subject to our Standard Conditions of Sale and the end user should ensure that he has consulted our latest literature.

Technical services

weber's Customer Services Department has a team of experienced advisors available to provide on-site advice both at the specification stage and during application. Detailed specifications can be provided for specific projects or more general works. Site visits and on-site demonstrations can be arranged on request.

Technical helpline

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Fax: (01525) 718988

Sales enquiries

weber products are distributed throughout the UK through selected stockists and distributors. For UK sales enquiries and overseas projects, contact **weber's** Sales office.

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