

Shrinkage-compensated, rapid-setting bedding mortar for the reinstatement of road iron work and highway furniture

weber.cem pyrabed

pyrabed frame mortar



Uses

- Bedding and levelling of road iron work and highway furniture
- Bonding of granite sets and flags
- Rapid installation of manhole brickwork
- Emergency concrete road repair
- Rapid repair of kerbs, steps, platforms, precast units and honeycombed concrete
- Suitable for drypack applications
- Large cable duct installations

About this product

weber.cem pyrabed is a range of cementitious products containing a blend of special cements and graded aggregates, which when mixed with water produce fast-setting bedding mortars for the rapid installation of ironwork and highway furniture. They can be applied to depth of 10 – 100 mm in one pass and the rapid strength development characteristics allow the road to be opened to traffic between 60 – 90 minutes after placement, dependent on the grade of product selected.

Features and benefits

- ▲ A range of working times between 5 – 15 minutes at 20°C
- ▲ Rapid strength development reducing repair possession times
- ▲ Open to traffic between 60 – 90 minutes
- ▲ Shrinkage compensated
- ▲ Economical repair, can be extended with aggregate for repairs more than 100 mm in thickness providing flexibility of use
- ▲ Excellent strength gain at low temperatures
- ▲ Excellent bond strength
- ▲ No primer required
- ▲ Complies with HA spec HD 27/94 achieving 20 N/mm² in less than 2 hours at 20°C
- ▲ Two grades of mortar to allow for varying traffic conditions

Technical data

The following test results were obtained in lab conditions at 20°C, 0.12 w/p ratio

weber.cem pyrabed Grade	T60	T90
Physical properties		
Plastic density	2200 kg/m ³	2200 kg/m ³
Working time	5 – 10 mins	10 – 15 mins
Setting time	10 minutes	15 minutes
Traffic time*	60 minutes	90 minutes

*Times will be extended at lower temperatures

Mechanical properties

Compressive strength		
45 minutes	10 N/mm ²	5 N/mm ²
1 hour	20 N/mm ²	15 N/mm ²
2 hours	30 N/mm ²	25 N/mm ²
24 hours	35 N/mm ²	30 N/mm ²
7 days	40 N/mm ²	35 N/mm ²
28 days	45 N/mm ²	40 N/mm ²

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Preparation

Clean and remove all oil, grease, dirt and loose debris from the work area to provide a sound substrate. Pre-soak the substrate, removing any standing water before placing the mortar.

Mixing

Use only freshly opened bags of **weber.cem pyrabed** and a clean, forced-action mixer such as a Cretangle or Mixal mixer. Charge the mixer with 2.5 – 3.0 litres of water per 25 kg bag, add the powder gradually to the mixer and mix for 2 – 3 minutes until a stiff mortar consistency is achieved.

When mixing by hand use a clean spot board or wheelbarrow. Add 3 litres of water per 25 kg bag, mix until the powder is fully wetted out and a homogeneous mix is produced.

Small quantities can be mixed by hand using a ratio of 6 parts powder to 1 part of clean water by volume.

For repairs over 100 mm thick, bulk out with 30% (by weight) of 5 – 10 mm aggregate and mix for 3 minutes to a uniform consistency.

Application

Apply sufficient mixed mortar onto the pre-wetted substrate to ensure full contact will be made with the bottom of the frame or unit.

Lower the frame or unit onto the mortar and tap down to line and level. The mortar can be applied between 10 – 100 mm in a single pass – greater thickness can be achieved using a layer-upon-layer method.

Once the mortar has reached initial set, fresh mortar can be used to backfill the ironwork.

The **weber.cem pyrabed** should be placed within 5 – 15 minutes of completion of mixing (see technical data table).

The set time will be extended in cold conditions and shortened in hot conditions. At lower temperatures it is advisable to keep the powder warm and use warm water up to 30°C.

weber.cem pyrabed can be used down to 5°C. For applications below 5°C, please consult **Weber's** Customer Services Department.

Curing

No special curing is required at application temperatures between 5°C and 35°C.

Packaging

weber.cem pyrabed is supplied in 25 kg bags.

Yield

Yield per bag is 12.75 litres. Approximately 78 bags are required for 1 m³.

Storage and shelf life

When stored unopened in a dry place at temperatures above 5°C, shelf life is 6 months from date of manufacture.

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.

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

Tel: (01525) 722110
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.

Sales office

Tel: (01525) 722100
Fax: (01525) 718988

Saint-Gobain Weber Ltd

Dickens House, Enterprise Way, Maulden Road, Flitwick, Bedford MK45 5BY, UK
Tel: 08703 330070 Fax: (01525) 718988 e-mail: mail@netweber.co.uk

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