

Single-component, cementitious
waterproofing mortar

weber.dry plus



About this product

weber.dry plus is a preblended, single-component, cementitious mortar which, when mixed with water, produces a durable, high-performance, grey waterproof coating, suitable for use on concrete, and cement renders. It penetrates into the substrate and crystallises, blocking the passage of water. **weber.dry plus** is suitable for use on wet, horizontal and vertical, internal and external surfaces, subject to positive or negative water pressures.

Technical data

The following test results were obtained in laboratory conditions at 20°C

Hardened density:	1900 kg/m ³
Bond to concrete:	> 1.0 N/mm ²
Bond to concrete after thermal cycling:	> 1.0 N/mm ²
Interlayer bond strength:	> 1.0 N/mm ²
At 2 mm thickness, no leaks at negative pressure of:	1 bar at 7 days 2 bars at 14 days 3 bars at 28 days

	Compressive strength	Tensile strength	Elastic modulus
7 days	19 N/mm ²	2.5 N/mm ²	—
28 days	20 N/mm ²	3.0 N/mm ²	7.6 kN/mm ²

Uses

weber.dry plus is applied in two coats, each from 1 mm to 2 mm thickness.

Suitable substrates:

- New, old or repaired concrete
- Cement rendered dense brickwork at least 14 days old

weber.dry plus may be applied to walls, floors or soffits, including underground work in buildings (e.g. foundations, basements, car parks etc.) and in civil engineering.

Typical applications include:

- Waterproof coating: structures subject to positive and negative water pressure
- Waterproofing of water excluding structures

Constraints

Do not apply more than 2 mm thick in one coat. Do not use on weak or friable substrates, where the substrate is cracked, subject to movement or heavily trafficked. **Do not use on brickwork.** Not to be used as a decorative finish.

Features and benefits

- ▲ Uses high quality selected components
- ▲ Easy to mix and apply
- ▲ Can be applied by spray pump to cover large areas
- ▲ Excellent bond to damp or wet concrete
- ▲ Particularly suited to application on negative pressure side
- ▲ Impermeable to negative pressure up to 3 bars
- ▲ Resistant to thermal cycling
- ▲ May be overcoated with tiles, microporous paints or coatings

weber.dry plus

Preparation

All substrates must be sound and free of all contamination including laitance, paints, coatings, oil, grease and dust.

Concrete and cement render surfaces must be roughened by suitable mechanical means such as grit blasting, high pressure water jetting or needle gunning. New concrete must be fully cured for at least 14 days. Do not use a permanent curing membrane.

Pores in concrete surfaces and small cavities in cement render should be raked out, saturated with water and filled flush with **weber.cem dryrend 521**. Where pores are weeping, fill with **weber.cem plug 530**. Form rounded skirtings at junction of walls and floor and form vertical coverings in corners between walls with **weber.cem dryrend 521**.

Thoroughly dampen the whole area with clean water before applying **weber.cem coat 511**. All ancillary works such as leak sealing, treatment of cracks and joints, sealing of pipes and fixtures should be carried out in accordance with the Specification. Contact Technical Services for details.

Mixing

Use only clean, potable water. Water addition per 25 kg bag: 6.5 litres up to 8 litres.

The consistency of **weber.dry plus** is affected by temperature: in colder weather (5 – 20°C) use less water; in warmer weather (20 – 35°C) use more water up to maximum of 8 litres.

Mix **weber.dry plus** in a forced-action mixer such as a Mixal or Creteangle, or in a clean bucket using a paddle and a slow speed drill at a speed not exceeding 500 rpm. Pour about 6 litres of water into a clean bucket. Add powder gradually while mixing. Mix for at least 2 minutes adding water to produce a smooth and homogeneous brushable consistency.

Do not exceed 8 litres of water addition. Remix after 10 minutes if required.

Application

Hand application

Use a stiff bristle brush to apply a first coat of **weber.dry plus** over the surface at a minimum rate of 2 kg/m², spreading out evenly and ensuring full overlap between brush applications.

Leave for 3 to 8 hours to reach initial set*. Dampen the surface and apply the second coat at a rate of 1 to 2 kg/m² at right angles to the first coat to ensure a pinhole free coating.

Machine application

Use a Putzmeister Sprayboy or similar machine. Machine mix the mortar for at least 5 minutes.

Apply the mixed **weber.dry plus** by spray pump to the required thickness (max. 2 mm in one pass)

The second coat should be applied as soon as the first layer has reached initial set* (approx. 6 hours at 20°C).

Application temperature: 5°C to 35°C
Do not apply to frozen surfaces or when frost is forecast within 24 hours.

Do not apply in direct sunlight or on a hot substrate.

*Note: Times quoted need to be extended at lower temperatures and reduced at higher temperatures.

Finishing

weber.dry plus is normally left with a brushed finish.

Curing

Normal concrete curing methods are recommended. Do not use until 4 days after application (at 20°C).

When applying in confined spaces, cure for 4 days then ensure sufficient ventilation to prevent condensation.

Pot life

30 minutes at 20°C.

Packaging

weber.dry plus supplied in 25 kg bags.

Coverage and yield

Approx. 3.5 to 4 kg per m² when applied at 2 mm thickness. Yield 13 litres per 25 kg bag.

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.

EU VOC regulations 2008

EU limit for weber.dry plus (cat A/g or j): g-50 g/l, j-140 g/l (2007)/g-50 g/l, j-140 g/l (2010). **weber.dry plus** contains <1 g/l VOC.

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 722137
Fax: 01525 718988

Sales enquiries

Weber products are distributed throughout the UK through selected stockists and distributors. Please contact the relevant Customer Services Team below for all product orders and enquiries.

England and Wales

Tel: 08703 330070
Fax: 01525 718988

Scotland, Northern Ireland, Isle of Man, Republic of Ireland

Tel: 028 9335 2999
Fax: 028 9332 3232

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

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.