

MasterProtect® 1891

High build epoxy resin mortar, specifically designed for vertical and overhead applications

DESCRIPTION

MasterProtect 1891 is a three-component solvent free epoxy resin mortar. The specially selected fillers and resins form an easily finished impervious mortar with high build characteristics combined with optimum chemical and mechanical resistance.

PRIMARY USES

Overhead work and vertical surfaces where normal epoxy resin compounds are unsuitable. Wherever effective repair of spalled concrete is required to provide all round protection to reinforcing steel, vertical renders for linings, etc. General repairs, renovation and rendering to:

- Soffits.
- Undersides of floors, beams, etc.
- Honeycombed or spalled concrete.

Wherever a high build impervious mortar with excellent chemical resistance and maximum mechanical properties is required, such as sewerage works, bridge repairs, manhole linings, pipes, etc. **MasterProtect 1891** is non-toxic and can be used in potable water installations.

ADVANTAGES

- Light weight.
- Suitable for high build application.
- Suitable for vertical and overhead surfaces,
- Good adhesion and cure under damp conditions.
- Excellent chemical resistance.
- Nontoxic.
- Extended pot life and working time.
- Low exotherm.

PACKAGING

MasterProtect 1891 is supplied in 16.5 kg units.

TYPICAL PROPERTIES AT 25°C

Service temperature limits:	-20°C to 65°C.
Application temp. limits:	8°C to 45°C
Density (BS 6319 Part 1):	1670 kg/m ³
Pot life at 25°C	120 mins
at 40°C	90 mins
Full cure 25°C	7 days
Water Absorption (ASTM C4113)	0.05%
Compressive strength at 25°C (ASTM C-579)	
1 day at 25°C	>15N/mm ²
3 days at 25°C:	>25N/mm ²
14 days at 25°C:	>50N/mm ²

APPLICATION PROCEDURE

The surface to be treated should be dry and free from dirt, dust concrete curing compounds, residual mold oil or other contaminate that could impair adhesion. Cement laitance should be removed by wire brushing or grit sand blasting before priming with **MasterEmaco P 102**.

Thoroughly mix base and reactor components of the primer for 3 to 4 minutes and apply evenly to the substrate using a stiff brush. The contents of the container must be used within 45 minutes of mixing at 25°C. Priming should be carried out in advance of application of the mortar. It is essential to apply the mortar on top of the primer whilst the latter is still tacky. If the first priming coat should gel, apply a second priming coat before applying the mortar.

1 liter of **MasterEmaco P 102** Primer will be sufficient to treat approximately 6 to 8m² (dependent on porosity and texture of surface).

The thoroughly mixed mortar should be used without delay and applied using a steel trowel. Press well into the primed surface and compact to ensure positive and permanent adhesion. Use a steel trowel to finish and bring resin to the surface.

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For vertical repairs thickness up to 20 mm can be applied in one layer. If greater thicknesses are required priming between layers is necessary with cross hatch for the based layer before curing take place to provide a mechanical key.

COVERAGE

A 16.5 kg pack will cover 2 m² at a thickness of 5mm excluding wastage.

STORAGE

Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Master Builders Solutions representative.

Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY AND CARE

All Master Builders Solutions Products are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health and safety standards of ISO 9001 and Master Builders Solutions ESHQ recommendations.

* Properties listed are based on laboratory controlled tests.

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CONTACT

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Disclaimer:

In view of widely varying site conditions and fields of application of our products, this technical data sheet is meant to provide general application guidelines only. This information is based on our present knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with Master Builders Solutions and possible resulting damages are in the sole responsibility of the customer.

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