

MasterProtect[®] 2020

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

DESCRIPTION

MasterProtect 2020 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.

TYPICAL APPLICATIONS

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 2020** 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
- Non-toxic
- Extended pot life and working time
- Low exotherm

PACKAGING

MasterProtect 2020 is supplied in 5 kg units.

TYPICAL PROPERTIES*

Service temperature limits	-20°C to 65°C
Application temperature limits	8°C to 45°C
Density - BS 6319 Part 1	1.65 kg/L
Pot life @ 25°C	120 min
@ 40°C	90 min
Tack free @ 25°C	5½ h
@ 40°C	2¼ h
Full cure @ 25°C	3 to 5 days
Compressive strength @ 25°C ASTM C579 (7 Day Cure)	>45 MPa
Chemical resistance	Excellent

APPLICATION GUIDELINES

Refer to the relevant method statements for full application guidelines.

The surface to be treated should be dry and free from dirt, dust concrete curing compounds, residual mould 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 L of **MasterEmaco P 102** Primer should be sufficient to treat approximately 4 to 6 m² (dependant 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 large areas layers should not exceed 50 mm in thickness. However, for smaller repairs thickness up to 75 mm can be applied. Minimum thickness is 3 mm. Further priming is necessary between layers and the backing layer should be cross hatched before cure takes place to provide a mechanical key.

COVERAGE / YIELD

A 5 kg pack will cover approximately 0.6 m² at a thickness of 5 mm (dependent on surface texture).

STORAGE AND SHELF LIFE

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.

The shelf life is 12 months when stored as above.

HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which may also be tainted with vapour until product is fully cured). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Reseal containers after use. For further information refer to the Material Safety Data Sheet.

QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

* Properties listed are based on laboratory controlled tests.

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NOTE

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