

MasterEmaco[®] S 810

Cementitious spray applied repair mortar

DESCRIPTION

MasterEmaco S 810 is a ready-to-use, cement based spray applied repair mortar with reduced rebound. It is specially designed for civil and mining applications using either the wet or dry shotcreting systems. It gives high early strength, reduced rebound and allows for maximum application thickness and with resistivity values in the range accepted for cathodic protection (CP) overlays

RECOMMENDED USES

- Repairs to the underside of bridge decks, bridge piers and beams, tunnels, drains, sea walls, and culverts.
- Reinstating of eroded concrete in sewers prior to the application of **MasterEmaco S 880**
- Tunnel linings and embankment stabilisation.
- Refurbishment of columns, bridges, tunnels and retaining walls.
- Single high build application.
- Repair of fire damaged structures, marine structures, piers, quays, off shore platforms, etc
- Cathodic protection overlays.

FEATURES AND BENEFITS

- **Factory mixed**– No onsite variations
- **Easy to use** – Requires only the addition of potable water for mixing or spraying
- **Economical** – Reduces handling and clean-up costs and speeds up repairs
- **Versatile**– Is easily sprayed using the wet mix shotcrete system or dry mix systems
- **Good working time**–Over one hour at 23°C
- **Controlled shrinkage**– Reduced cracking tendency
- **Low resistivity** – suitable for cathodic protection overlays.

PROPERTIES

Appearance	Grey granular powder
Maximum aggregate size	5mm
Density :	Dry bulk : 1700kg/m ³
	Applied :2400kg/m ³
Water/powder ratio, by weight :	0.085

Compressive Strengths*	15N/mm ² @ 24 Hours
	40N/mm ² @ 28 Days
Alkali contents :	< 3.0 kg/m ³ (as Na ₂ O)

* All performance data is determined by testing of actual, in-place shotcrete specimens such as cores and beams taken from test panels.

Reasonable variations from the data shown can be expected, depending on the care taken in evaluating test specimens, and jobsite conditions such as the quality of substrate preparation, level of expertise of the nozzle man, curing procedures and weather.

APPLICATION DIRECTIONS

Prepare the surface to be shotcrete by removing all unsound concrete, dirt, dust and debris. For structural repairs to existing concrete members, saturate the properly prepared concrete surface for a minimum of 7 hours prior to shotcreting.

Mix **MasterEmaco S 810** with approximately 2 - 2.25 litres of water per 25kg bag.

MasterEmaco S 810 can be shotcreted in depths ranging from 10 - 150mm in one pass.

CURING

Proper curing is extremely important. Wet curing is recommended for the first 3-5 days, after that time continue curing by the use of a quality curing compound such as **MasterKure181**.

ESTIMATING DATA

One 25kg bag of **MasterEmaco S 810** mixed with 2 - 2.25 L water yields approximately 13.5litres (0.0135m³).

Allowance must be made for rebound and cut off for finishing which will reduce the coverage accordingly.

Refer to your Master Builders Solutions technical representative for further advice.

PACKAGING

MasterEmaco S 810 is available in 25 Kg bag

SHELF LIFE

MasterEmaco S 810 has a shelf life of 6 months. Store out of direct sunlight, clear of the ground on pallets protected from rainfall.

PRECAUTIONS

It is highly recommended to use necessary PPE (Gloves, mask etc.) during installation of the product. In case of incidents of direct inhalation, causing dizziness/giddiness, loss of consciousness, contact with eyes etc, seek immediate medical advice. The requirements may vary depending on the application areas. Please

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ensure to have proper ventilation while working in confined areas. Contact Master Builders Solutions representative in case you need further details or refer to the material safety datasheet of the product to know more.

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**STATEMENT OF
RESPONSIBILITY
(Disclaimer)**

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

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