

MasterEmaco[®] S 822

Cementitious spray applied repair mortar for cathodic protection overlays

DESCRIPTION

MasterEmaco S 822 is a ready-to-use, cement based shotcrete mix with reduced rebound for cathodic overlays. It is specially designed for civil and mining applications using either the wet or dry shotcreting systems.

RECOMMENDED USES

- Repairs to the underside of bridge decks, bridge piers and beams, tunnels, drains, sea walls, and culverts where impressed current cathodic protection systems are used.

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 21°C
- Low resistivity** - improves effectiveness of impressed current cathodic protection systems
- Controlled shrinkage** - reduced cracking tendency

PROPERTIES

Age	Compressive Strength MPa (AS1012.14)	Flexural Strength MPa (AS1012.11)
24 hours	30.0	
7 days	42.0	6.0
28 days	58.0	6.6
Permeability (Taywood Method)	1.4 x 10 ⁻¹² (metres/sec.)	

Electrical Resistivity (Taywood method)

Age	Resistivity (Ohm cm)
19 days	14400
28 days	23500
41 days	44000

All performance data is determined by testing of actual, in-place shotcreted 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 nozzleman, curing procedures and weather.

APPLICATION DIRECTIONS

Prepare the surface to be shotcreted 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 822** with approximately 1.8-2.5 litres of water per 20kg bag.

MasterEmaco S 822 can be shotcreted in depths ranging from 10mm - 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 **MasterKure 250**.

ESTIMATING DATA

One 20kg bag of **MasterEmaco S 822** mixed with water yields approximately 10.2 litres (0.0102m³). This will cover approximately 10m² at 1mm thick and a bag will be sufficient to apply approximately 10mm of shotcrete to a square meter.

MasterEmaco S 822				
L	Thickness in mm /m ²	m ³	bags /m ³	m ² /mm thickness
10.2	10.2mm	(0.0102)	98	10.2 m ²



We create chemistry

MasterEmaco[®] S 822

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

Without allowing for cut-off, an allowance of 5-10% can be made for rebound. This is for an experienced nozzleman and ideal conditions. For overhead spraying the rebound allowance may be increased to 10-50% depending on the admixtures used. Refer to your BASF Construction Chemicals for further advice.

PACKAGING

MasterEmaco S 822 is available in 20kg bags.

SHELF LIFE

MasterEmaco S 822 has a shelf life of 12 months. Store out of direct sunlight, clear of the ground on pallets protected from rainfall.

PRECAUTIONS

For the full health and safety hazard information, first-aid measures and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Safety Data Sheet (SDS) from BASF office or website.

MasterEmaco-SS 822-ANZ-V7-0417

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF 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

Field service where provided does not constitute supervisory responsibility. Suggestions made by BASF either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF, are responsible for carrying out procedures appropriate to a specific application.

BASF Australia Ltd

ABN 62008437867
Level 12
28 Freshwater Place
Southbank VIC 3006

Freecall: 1300 227 300

www.master-builders-solutions.basf.com.au

BASF New Zealand Ltd

Level 4, 4 Leonard Isitt Drive
Auckland Airport 2022
Auckland, New Zealand

Freecall: 0800 334 877

www.master-builders-solutions.basf.co.nz

BASF Emergency Advice:

1800 803 440 within Australia (24hr)
0800 944 955 within New Zealand