

MasterEmaco[®] S 820 CI

Cementitious spray applied repair mortar with active corrosion inhibition

DESCRIPTION

MasterEmaco S 820 CI is a ready-to-use, cement based shotcrete mix with reduced rebound and active corrosion inhibition. 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.
- Reinstating of eroded concrete in sewers prior to the application of **MasterEmaco S 880**
- Tunnel linings and embankment stabilisation.

FEATURES AND BENEFITS

- **Factory mixed** - No onsite variations
- **Active corrosion inhibition** - Reduced possibility of incipient anodes and longer lasting patches
- **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
- **Addition of acrylic** - Improved bonding and impermeability
- **Controlled shrinkage** - Reduced cracking tendency

PROPERTIES

Age	Compressive Strength MPa	Flexural Strength MPa
1 day	30.0	3.0
3 days	45.0	4.0
7 days	60.0	5.0
28 days	70.0	6.0

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 nozzle man, 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 820 CI** with approximately 1.8-2.5 litres of water per 20kg bag.

MasterEmaco S 820 CI 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 **MasterKure 404** or **MasterKure 250**. If **MasterEmaco P 157** is mixed with **MasterEmaco S 820 CI** then only **MasterKure 404** can be used. Do not use solvent-based curing compounds such as **MasterKure 250**.

ESTIMATING DATA

One 20kg bag of **MasterEmaco S 820 CI** mixed with water yields approximately 10.2 litres (0.0102m³).

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 technical representative for further advice.

PACKAGING

MasterEmaco S 820 CI is available in 20kg bags.



We create chemistry

MasterEmaco[®] S 820 CI

SHELF LIFE

MasterEmaco S 820 CI 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 and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Material Safety Data Sheet (MSDS) from our office or our website

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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.

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