

# MasterEmaco<sup>®</sup> S 730

## Thixotropic fibre reinforced, polymer repair mortar

### DESCRIPTION

**MasterEmaco<sup>®</sup> S 730** is a ready to use, shrinkage compensated, blend of dry powders. It requires only the addition of potable water to produce a highly consistent repair mortar suitable for structural concrete and masonry repairs.

### CONFORMANCE

**MasterEmaco<sup>®</sup> S 730** has been formulated to meet the requirements of the SABS test method 862-2:1994 and ASTM C1437-01.

### TYPICAL USES

**MasterEmaco<sup>®</sup> S 730** is suitable for the following:

- All types of structural repairs that can be applied by trowel, spray or hand.
- Repair of structures subjected to repetitive loading and trafficked areas
- Repairs to reinforced or pre-stressed columns or beams
- Industrial repairs, especially in areas containing mineral oils, lubricants etc
- Repairs in marine environments

### SPECIAL FEATURES

- **MasterEmaco<sup>®</sup> S 730** is chloride free and does not contain metallic aggregate
- **MasterEmaco<sup>®</sup> S 730** is suitable for spray or trowel applications & in thicknesses up to 50mm in one layer, when applied by hand.

### TYPICAL PROPERTIES

Appearance	Grey powder
Fresh wet density	2030kg/m <sup>3</sup>
Yield	±70 bags/m <sup>3</sup>
Compressive Strength	40MPa @ 28 days
Flexural strength	5MPa @ 1 day
Plastic expansion	0.2%
Hardened expansion	0.05%

### APPLICATION PROCEDURE

#### PREPARATION OF SUBSTRATE

It is essential that the substrate to be repaired is sound, clean and free of all contamination.

The damaged areas of concrete to be removed should be clearly identified. The perimeter of the area should be saw cut to a depth of 10 mm and the edges cut as neatly as possible keeping the sides square. Feather-edging is not permitted and a minimum thickness of 10 mm must be maintained over the whole repair area.

The substrate should be prepared to provide a rough surface having at least a 5 mm amplitude at 20 mm frequency. If unsound or contaminated concrete is found to extend beyond the pre marked area, consult the engineer in charge. Subject to his approval cut out as necessary, back to clean sound concrete and repair as previously stated.

If reinforcement is corroded ensure that the back of the steel has been exposed. Reinforcement should have all rust removed by the use of power tools, abrasive blasting (wet or dry) or wire brushing. Reinforcing steel should be exposed and cleaned around its whole circumference. Steel should be prepared to Swedish Standard SIS 05-900:1967-SA 2½ or BS 4232 Ref. 24 second quality.

Extra protection to the reinforcement can be provided by the use of **MasterEmaco<sup>®</sup> 8100 AP** dependant upon the circumstances of use and requirement of the client.

Severely corroded reinforcement may require replacement and the engineer must be consulted.



We create chemistry

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## LIMITATIONS

Do not attempt repairs using **MasterEmaco<sup>®</sup> S 730** on a 5°C and falling temperature scale. Avoid excessive heat (35-40°C). Cooling of mix water or covering of the structure with shade cloth may be necessary to reduce heat.

## WATER ADDITION

Water added at the following rates per 25kg bag of **MasterEmaco<sup>®</sup> S 730** will give the consistency indicated:

Trowelable	3 litres
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## PACKAGING

25kg polylined bags – yield 12.5 litres.

## STORAGE

Store under cover, out of direct sunlight and protect from extremes of temperatures.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult BASF Construction Chemicals SA's Technical Services Department.

## SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.

## NOTE

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

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

## QUALITY AND CARE

All products originating from BASF Construction Chemicals South Africa are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, 2008.

\* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the BASF-Group in many countries.

## 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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