

# MasterEmaco® N 303 (Formerly known as Emaco® R303 Stadium Grey)

Single component polymer modified fairing coat / cosmetic mortar for concrete surfaces

## DESCRIPTION

**MasterEmaco® N 303** is a single component acrylic polymer modified repair mortar for use as a "fairing coat" or cosmetic mortar. When mixed with water, as directed, a fine grey trowellable mortar results which can readily be applied to fill in pores, blowholes and blemishes on a concrete surface. **MasterEmaco® N 303** can be used as a 'skim' coat prior to the application of protective coatings.

**MasterEmaco® N 303** is specially formulated to produce a shrinkage compensating mortar with no cracking when applied in a thin section. Adhesion to concrete and flexibility are excellent.

## PRIMARY USES

As a fairing or skim coat to cover and make good blemishes in concrete surfaces such as slight honeycombing, blowholes, defects caused by 'sand runs', patch repairs, shutter movement and grout loss.

- Preparatory treatment to concrete to receive a thin film protective coating.
- To produce a uniform surface over repaired areas.

## ADVANTAGES

- Precision made, consistent results.
- Requires only the addition of mixing water.
- Shrinkage compensating.
- Excellent adhesion to concrete.
- Flexible.
- Smooth, easily produced finish.
- Low permeability
- Stadium Grey colour available
- Excellent resistance to freeze / thaw action and carbonation.
- Ingress of water borne salts, such as chloride and atmospheric / chemical attack.
- Subsequent paint coats can be applied with greater economy.

## PACKAGING

25kg bags – yield 16 litres.

## TYPICAL PROPERTIES

Plastic density:	1800kg/m <sup>3</sup>
Compressive strength at 28 days	25N/mm <sup>2</sup>

\* Properties listed are only for guidance and are not a guarantee of performance.

## APPLICATION

**MasterEmaco® N 303** should be applied to the complete area with the minimum of trowelling. Leave for a short period before final trowelling. Finishing may be aided by flicking a small amount of water onto the surface, using a paint brush before final trowelling.

When used as a "scraper coat" **MasterEmaco® N 303** can be applied with a brush or roller and then the excess scraped off with the edge of a steel float. In this way blow holes and minor blemishes in an otherwise fair faced concrete can be hidden.

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## CURING

Good curing practice is essential even though **MasterEmaco® N 303** is specially formulated to prevent shrinkage and cracking. Particular care is required in hot and windy conditions. Cure with a single coat of **MasterKure® 181** which is compatible with most subsequent protective coatings, or by covering the work with properly secured plastic sheeting or with water.

## PREPARATION

It is essential that the surfaces to be bonded are sound, clean and uncontaminated. All loose powdering material must be removed. Concrete surfaces should be thoroughly soaked prior to application of **MasterEmaco® N 303**, to ensure a saturated, but surface dry condition.

## VOID FILLING

Deeper voids should be filled prior to the application of a cosmetic coating by reducing the amount of water added when mixing to produce a trowellable putty like mortar.

## MIXING

**MasterEmaco® N 303** is formulated to give an easily mixed material. For full bag quantities, it is preferable to mix the material in a Crete angle or similar forced action mixer. Alternatively, a slow speed, hand held electric mixer with a suitable paddle can be used. Over mixing should be avoided. The powder should be placed in the mixing vessel and mixing commenced. Clean water should be slowly added up to the recommended maximum or until the required consistency is achieved. No more than 5.50 litres of water per 25kg of **MasterEmaco® N 303** should

be added. (W/P ratio = 0.22).

## COVERAGE

One 25kg bag of **MasterEmaco® N 303** will typically yield 16 litres of mortar and will cover approximately 6.3m<sup>2</sup> at 2.5mm thickness.

## EQUIPMENT CARE

Tools should be washed with water immediately after use.

## SPECIFICATION CLAUSE

## SURFACE FINISHING

All slight surface imperfections should be made good by the application of **MasterEmaco® N 303** as manufactured by BASF Construction Chemicals SA. Applications should be strictly in accordance with the manufacturer's instructions.

## 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 is 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



We create chemistry

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## 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.

BASF Construction Chemicals South Africa (Pty) Ltd

852 Sixteenth Road, Midrand

PO Box 2803, Halfway House, 1685

Tel: +27 11 203 2405

Fax: +27 11 203 2679

[www.master-builders-solutions.basf.co.za](http://www.master-builders-solutions.basf.co.za)