

# MasterEmaco N 303

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

## MATERIAL 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 trowelable 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

20kg bags – yield 12.8 litres.

## STORAGE

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

## Shelf life:

12 months from date of manufacture.

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

## TYPICAL PROPERTIES \*

Plastic density	1800kg/m <sup>3</sup>
Compressive strength at 28 days	20N/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.

## 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.

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### 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 trowelable 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, handheld 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 5.6 litres of water per 20kg of **MasterEmaco N 303** should be added. (W/P ratio = 0.28).

### COVERAGE

One 20kg bag of **MasterEmaco N 303** will typically yield 12.8 litres of mortar and will cover approximately 5.04m<sup>2</sup> at 2.5mm thickness.

### EQUIPMENT CARE

Tools should be washed with water immediately after use.

### SURFACE FINISHING

All slight surface imperfections should be made good by the application of **MasterEmaco N 303** as manufactured by Master Builders Solutions. 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. Shelf life of 12 months from date of manufacture.

Failure to comply with the recommended storage conditions may result in premature deterioration of the

product or packaging. For specific storage advice consult Master builders Solutions' 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.

### NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

MB Construction Chemicals Solutions South Africa (Pty) Ltd reserves the right to have the true cause of any difficulty determined by accepted test methods. Undertaking such tests is not, and shall not be deemed to be, an admission of liability or an assumption of any risk, loss, damage or liability.

### QUALITY AND RESPONSIBLE CARE

All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

\* Properties listed are based on laboratory controlled tests.

### DISCLAIMER

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