

EMACO[®] R303

Single component polymer modified fairing coat cosmetic mortar for concrete surfaces

Description

EMACO[®] R303 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.

EMACO[®] R303 can be used as a 'skim' coat prior to the application of protective coatings.

EMACO[®] R303 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
- 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

EMACO[®] R303 is supplied in 25kg bags.

Typical properties

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

Plastic density:	1700kg/m ³
Compressive strength at 28 days	27N/mm ²

Application

EMACO[®] R303 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 "scrape coat" EMACO[®] R303 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 EMACO[®] R303 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 a properly secured plastic sheeting.



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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 EMACO[®] R303, 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:

EMACO[®] R303 is formulated to give an easily mixed material. For full bag quantities, it is preferable to mix the material in a Creteangle 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 4.75 litres of water per 25kg of EMACO[®] R303 should be added.

Coverage

One 25kg bag of EMACO[®] R303 will typically yield 16 litres of mortar and will cover approximately 6.3m² 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 EMACO[®] R303 as manufactured by BASF. Applications should be strictly in accordance with the manufacturer's instructions.

Storage

Store out of direct sunlight, clear of the ground on pallets protected from rainfall. Avoid excessive compaction.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult BASF'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. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation. For further information refer to the material safety data sheet.



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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's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

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As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

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