

EMACO® R307

**Single component polymer modified
fairing coat. Cosmetic mortar for
concrete surfaces**

Description

EMACO R307 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 R307 can be used as a 'skim' coat prior to the application of protective coatings.

EMACO R307 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
- Reduces ingress of water borne salts, such as chlorides and atmospheric / chemical attack.
- Subsequent paint coats can be applied with greater economy.

Packaging

EMACO R307 is supplied in 20 kg bags.

Typical properties*

Colour	Light grey
Plastic density	1700kg/m ³
Compressive strength at 28 days	20N/mm ²

Application

EMACO R307 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 R307 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 R307 is specially formulated to prevent shrinkage and cracking. Particular care is required in hot and windy conditions.

Cure with a single coat of MASTERKURE 180 which is compatible with most subsequent protective coatings, or by covering the work with a properly secured plastic sheeting.

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 R307, 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 R307 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. When mixing full bags, pour 3-4 litres water in the mixing vessel and commence mixing. Add the powder to the water whilst mixing, add water as required to achieve the desired consistency. No more than 7.5 litres of water per 20 kg of EMACO R307 should be added.

Coverage

One 20 kg bag of EMACO R307 will typically yield 16 litres of mortar and will cover approximately 16m² at 1mm 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 R307 as manufactured by Degussa 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 Degussa'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.

Note

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

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

Quality

All products produced by Degussa certified manufacturing facilities, are produced to conform to systems designed to meet internationally recognised quality standards.