

PRODUCT DATA SHEET

SikaEmaco® N 307

(formerly MEmaco N 307)

Single component polymer modified fairing coat and cosmetic mortar for concrete

DESCRIPTION

SikaEmaco® N 307 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.

SikaEmaco® N 307 can be used as a 'skim' coat prior to the application of protective coatings.

SikaEmaco® N 307 is specially formulated to produce a shrinkage compensating mortar with no cracking when applied in a thin section.

Suitable for use in hot and tropical climatic conditions.

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 area.

FEATURES

- 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.

PRODUCT INFORMATION

Packaging	20 kg bags
Shelf life	12 months from date of production
Storage conditions	Store in original unopened packaging in cool and dry condition between +5 °C and +35 °C. Protect from direct sunlight, heat and moisture.
Appearance and colour	Light Grey
Density	~1.7 kg/l (25°C)

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TECHNICAL INFORMATION

Tensile adhesion strength	~1.5 N/mm ²	(ASTM D4541)
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APPLICATION INFORMATION

Consumption	One 20 kg bag will cover ~16 m ² when applied at 1 mm thickness. This figure is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.
Yield	One 20 kg bag of SikaEmaco® N 307 will typically yield ~16 L of mortar
Layer thickness	5 mm max.

BASIS OF PRODUCT DATA

- All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
- Internal Reference - Version: MBS_CC-UAE/Em_N307_12_99/v3/03_16/v4/12_19

FURTHER DOCUMENTATION

General Method Statement (GMS)

IMPORTANT CONSIDERATIONS

SikaEmaco® N 307 should not be used in following cases:

- Leveling coat prior application of any rigid coating
- Trafficable areas
- Structural repairs of any type

At high temperatures, use chilled water for mixing.

For additional information on SikaEmaco® N 307 contact Sika Technical Department.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SURFACE 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 SikaEmaco® N 307, to ensure a saturated, but surface dry condition.

MIXING

SikaEmaco® N 307 is formulated to give an easily mixed material. For full bag quantities, it is preferable to mix the material in forced action mixer. Alternatively, a slow speed, handheld electric mixer with a suitable paddle can be used. Overmixing 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 SikaEmaco® N 307 should be added.

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.

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APPLICATION METHOD / TOOLS

SikaEmaco® N 307 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" SikaEmaco® N 307 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 TREATMENT

Good curing practice is essential even though SikaEmaco® N 307 is specially formulated to prevent shrinkage and cracking. Particular care is required in hot and windy conditions.

Cure with a single coat of Sika® Antisol®-181 which is compatible with most subsequent protective coatings, or by covering the work with a properly secured plastic sheeting.

CLEANING OF EQUIPMENT

Tools should be washed with water immediately after use.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

SIKA MANUFACTURING NIGERIA LIMITED

10, Western Industrial Avenue, Isheri
Riverview Estate
Lagos - Ibadan Expressway, Ogun State
NIGERIA
Web: nga.sika.com

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