

## PRODUCT DATA SHEET

# SikaEmaco® N 303

(formerly MEmaco N 303)

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

### DESCRIPTION

SikaEmaco® 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. SikaEmaco® N 303 can be used as a 'skim' coat prior to the application of the protective coatings.

SikaEmaco® 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.

### 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.

### CHARACTERISTICS / 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.

### PRODUCT INFORMATION

<b>Packaging</b>	25kg bag
<b>Shelf life</b>	06 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 Sika Technical Services Department.
<b>Storage conditions</b>	Store under cover, out of direct sunlight and protect from extremes of temperatures.
<b>Appearance / Colour</b>	Grey powder
<b>Density</b>	1.9 g/cm <sup>3</sup>

## TECHNICAL INFORMATION

Compressive strength	1 Day	≥ 5 MPa	(ASTM C109)
	28 Days	≥ 25 MPa	
Tensile adhesion strength	≥ 1.5 MPa		(EN 1542)

## APPLICATION INFORMATION

Consumption	~1,7 kg/m <sup>2</sup> /mm of powder Consumption depends on the roughness and absorbency of the substrate. This figure is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.		
Layer thickness	Minimum	2 mm	
	Maximum	10 mm	
Ambient air temperature	+5 °C min. / +35 °C max.		
Mixing ratio	water / powder = 0.18 ~ 0.19		
Substrate temperature	+5 °C min. / +35 °C max.		
Setting time	8 hrs @ +25 °C		
	6 hrs @ +40 °C		

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE 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 303, to ensure a saturated surface dry (SSD) condition.

### MIXING

SikaEmaco® 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. Pour the minimum amount of water into a suitable clean mixing container or equipment. Gradually add the powder to the water while stirring slowly. Mix thoroughly for at least for 3 minutes.

Add additional water if necessary while mixing to adjust to the required consistency to achieve a smooth consistent mix. No more than 4.75 litres of water per 25kg bag of SikaEmaco® N 303 should be added. (W/P ratio = 0.19). Over mixing should be avoided.

Note: Do not add more water than the maximum specified amount. Check the consistency after every mix.

### APPLICATION

SikaEmaco® 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 "scrapper coat" SikaEmaco® 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 TREATMENT

Good curing practice is essential even though SikaEmaco® 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 SikaKure 181 which is compatible with most subsequent protective coatings, or by covering the work with properly secured plastic sheeting or with water

### CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened material can only be removed mechanically.

## 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.

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### Product Data Sheet

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