

PRODUCT DATA SHEET

SikaEmaco® N 304

(formerly MEmaco N 304)

Cementitious repair mortar for non-structural cosmetic repairs

DESCRIPTION

SikaEmaco® N 304 is a fine aggregate and binder combination with grading and chemical additives to allow for superior trowelability and finish.

USES

SikaEmaco® N 304 is ideal for restoration of honey-combed, spalled or otherwise damaged concrete. It may be used for flatwork, in-situ or precast beams, columns and walls. Properly applied, MasterEmaco N 304 provides a watertight plaster coat and crack or ferrule hole caulking for reservoirs, channels or other water retaining structures. It may be applied for mass or thin set repairs but should be used in conjunction with SikaLatex 111 bonding agent. Consult the SikaLatex 111 data sheet for dilution information.

CHARACTERISTICS / ADVANTAGES

Layer thickness 1–5 mm
 Applied up to 5 mm thick in one layer on vertical and horizontal applications
 Good surface finishing
 Low cracking sensitivity
 Machine application (wet spray technique)
 Compatible with Sikagard® overcoat systems
 Ready to mix with water
 Does not contain chlorides or other corrosion promoting additives
 Class R4 of EN 1504-3
 Restoration work (Principle 3, method 3,1 and 3,3 of EN 1504-9). Repair of spalling and damaged concrete in infrastructure and superstructure works.
 ▪Preserving or restoring passivity (Principle 7, method 7,1 and 7,2 of EN 1504-9) - Increasing cover with additional mortar and replacing contaminated or carbonated concrete

PRODUCT INFORMATION

Packaging	20kg		
Shelf Life	12 months from date of production		
Storage Conditions	Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C. Always refer to packaging.		
Appearance / Colour	Natural Cement Grey or Stadium Grey		
Compressive Strength	3 Days 25 Mpa	28 Days 45 Mpa	(EN12190)

APPLICATION INFORMATION

Fresh mortar density	~2.2kg/ltr
Consumption	~2,0 kg/mm/m ² 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.
Yield	20 kg of powder yields approximately 10 litres of mortar
Layer Thickness	min. 5 mm / max. 15 mm
Ambient Air Temperature	+5 °C minimum; +30 °C maximum
Substrate Temperature	+5 °C minimum; +30 °C maximum

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

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Clean the substrate thoroughly so it is free from dust, loose material, surface contamination and material which reduces adhesion, prevents suction or wetting by the repair materials.

Remove delaminated, weak, damaged and deteriorated concrete and where necessary, sound concrete. Remove using mechanical hand-held tools, high or ultra-high-pressure water blasting equipment.

MIXING

Pour the minimum amount of water into a suitable clean mixing container or equipment.

1. Gradually add the powder to the water while stirring slowly.
2. Mix thoroughly for at least for 3 minutes, add additional water if necessary.

Note: Do not add more water than the maximum specified amount.

3. Adjust to the required consistency to achieve a smooth consistent mix.
4. Check the consistency after every mix.

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CURING TREATMENT

Protect fresh mortar immediately from premature drying using an appropriate curing method, such as curing compound, moist geotextile membrane or polythene sheet.

Curing compounds must not be used when they could adversely affect subsequently applied products and systems.

CLEANING OF TOOLS

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

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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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