

PRODUCT DATA SHEET

SikaEmaco[®] N 105

(formerly MasterEmaco[®] N 105)

ONE COMPONENT POLYMER MODIFIED FAIRING COAT AND COSMETIC MORTAR

DESCRIPTION

SikaEmaco[®] N 105 is a cementitious, polymer modified one component fairing coat. Cosmetic mortar for concrete surfaces.

Suitable for use in hot and tropical climatic conditions.

USES

SikaEmaco[®] N 105 can be used as a:

- Pinholes sealer / finishing mortar on cementitious substrates
- Rendering and smoothing on horizontal and vertical areas in building and civil engineering construction, for external and internal finishing, etc.
- Levelling mortar on uneven substrates, and profiled concrete surfaces.

FEATURES

- Easy to use
- Excellent workability
- Good mechanical strengths
- Non-corrosive
- Adjustable "creamy" consistency
- Economical
- Can be overcoated with texture coatings, acrylic decorative paints and wallpaper

PRODUCT INFORMATION

Composition	Polymer containing cementitious mortar with different additives
Packaging	25 kg bag
Shelf life	12 months from production date
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight, heat and moisture.
Appearance and colour	Grey Powder
Maximum grain size	~0.6 mm

TECHNICAL INFORMATION

Compressive strength w/p ratio = 0.28 ≥ 20 N/mm² (28 days) (EN 196-1)

APPLICATION INFORMATION

Fresh mortar density	~1.85 kg/l (25°C)
Yield	~17.3 litres per 25 kg bag
Layer thickness	max. 3.0 mm in one single layer
Ambient air temperature	+5 °C min. / +40 °C max.
Mixing ratio	7.0 to 7.5 L of water per 25 kg bag
Substrate temperature	+5 °C min. / +40 °C max.
Setting time	~90 min. (25 °C)
Application time	~60 min. (25 °C)

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.

FURTHER INFORMATION

General Method Statement (GMS)

IMPORTANT CONSIDERATIONS

- Refer to the Method Statement for more information regarding substrate preparation or refer to the recommendations provided in EN 1504-10.
- Avoid application in direct sun and/or strong wind.
- SikaEmaco® N 105 should not be used at temperatures below 5 °C.
- At ambient temperatures above 35°C, the material should be stored in the shade and chilled water should be used for mixing to keep the mixed mortar temperature below 30 °C.
- Do not add water over recommended dosage.
- Apply only to sound, prepared substrate.
- Protect freshly applied material.

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 QUALITY / PRE-TREATMENT

Substrates must be properly cured, structurally sound, free of any loose or friable particles, clean, dry and free of any contaminants such as dust, dirt, oil, grease, cement laitance or efflorescence.

Depending on the substrate condition, contaminants should be removed from the surface. Perform adequate preparation techniques, such as water-jet washing or blastcleaning, in order to remove all traces of any materials that could reduce the product's adhesion to the substrate.

For applications in hot climates / environments and / or on absorbent substrates, thoroughly pre-dampen the surface immediately prior to the product application, but avoid any ponding / standing water on the surface, which must not be damp to touch and not with a dark-matt / wet surface appearance i.e. it must be saturated surface dry (SSD).

MIXING

SikaEmaco® N 105 can be mixed with a low speed (< 500 rpm) hand drill mixer or using a force action mixer. Pour the recommended water in a suitable, clean mixing container. While stirring slowly, add the powder to the water and mix thoroughly at least for 3 minutes to achieve required homogeneous consistency. The obtained mix should be very creamy, easily spreadable and thixotropic.

Do not add extra water or other ingredients after mixing. Normal tumble type concrete mixers are not suitable. Do not mix more material than can be placed within its pot life.

Note: Always start with minimum recommended quantity of water (water/powder ratio), only if required, gradually add water to desired consistency. Do not exceed maximum allowed limit of water per bag weight.

APPLICATION

SikaEmaco® N 105 can be applied by trowel or spatula. As soon as the mortar has started to set it can be smoothed by wooden or synthetic float, XPS block or sponge.

CURING TREATMENT

Where ambient conditions may lead to rapid surface drying, the use of light water fogging, damp hessian and polythene sheet or application of a suitable water based curing compound from Sika® Antisol range is recommended.

Do not commence fogging until final set has been reached.

CLEANING OF EQUIPMENT

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

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 Gulf B.S.C. (c)

Tel: +973 177 38188

Email: info@bh.sika.com

Sika Kuwait Cons. Mat. & Paints Co WLL

Tel: +965 22 282 296

Email: sika.kuwait@kw.sika.com

Web: gcc.sika.com

Sika UAE LLC

Sika MB Construction Chemicals LLC

Sika International Chemicals LLC

Tel: +971 4 439 8200

Email: info@ae.sika.com

Web: gcc.sika.com

Sika Saudi Arabia Limited

Riyadh / Jeddah / Dammam / Rabigh

Tel: +966 11 217 6532

Email: info@sa.sika.com

Web: gcc.sika.com

Sika LLC - Oman

Master Builders Solutions LLC

(part of Sika)

Tel. +968 22 826 500

Email: info@om.sika.com

Web: gcc.sika.com



ISO 9001, 14001, 45001 – SGS
- Sika UAE LLC
- Sika International Chemicals LLC
- Sika Gulf B.S.C. (c)
ISO 9001, 14001 – SGS
- Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV
- Sika MB Construction Chemicals LLC
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All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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