

## PRODUCT DATA SHEET

# SikaEmaco® P 102

(formerly MEmaco P 102)

High performance primer

## DESCRIPTION

SikaEmaco® P 102 is a two-component solvent free primer based on epoxy resins for use with suitable epoxy overlays and coatings. It is used to promote the adhesion of toppings / coatings to existing concrete substrates.

Suitable for use in hot and tropical climatic conditions.

## USES

SikaEmaco® P 102 is non tainting and can be used with safety in food processing areas. It is used to bond epoxy coatings to concrete and other materials after first ensuring their strength and suitability as substrates.

SikaEmaco® P 102 is moisture tolerant and can be applied on damp, but not wet surfaces.

## FEATURES

SikaEmaco® P 102 provides permanent adhesion to:

- Concrete
- Cementitious systems
- Granolithic screeds
- Masonry paving
- Mild steel
- Excellent mechanical properties
- Low VOC
- Excellent water resistance
- Improves bond of Sikagard® and Sikafloor® systems
- Highlights pinholes and blowhole defects in concrete substrate

## PRODUCT INFORMATION

<b>Composition</b>	Epoxy resin
<b>Packaging</b>	Available in 1, 5 and 20 L kits
<b>Shelf life</b>	12 months from the date of production
<b>Storage conditions</b>	Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.
<b>Density</b>	~1.07 kg/l (Mixed resin at +25°C)
<b>Solid content by mass</b>	~100 % (Mixed resin at +25°C)
<b>Volatile organic compound (VOC) content</b>	< 1.0 g/l

# APPLICATION INFORMATION

<b>Consumption</b>	As a guide: ~150 - 250 ml/m <sup>2</sup> These figures are theoretical and do not include for any additional material required due to surface porosity, surface profile, variations in level and wastage, etc..	
<b>Pot Life</b>	<b>Working Time:</b>	<b>Temperature:</b>
	~1 hours	+25°C
	~30 minutes	+40°C
<b>Tack free time</b>	~1 hour	at 25°C
	~30 minutes	at 40°C
	Times are approximate and will be affected by changes in ambient conditions, particularly temperature and relative humidity.	

## 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\_\_P102\_12\_94/v2/05\_14/v3/12\_19/v4/03\_24

## IMPORTANT CONSIDERATIONS

- Epoxies lose gloss, discolour and will chalk in direct sunlight exposure.
- Ventilation: When used as a tank lining or in enclosed areas, continuous air circulation must be provided during and after application until product is cured. In addition to ensuring proper ventilation, appropriate respirators must be used by all application personnel.

## 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

In new construction, concrete to receive high performance coating and overlay systems should be designed, mixed and placed in accordance with internationally accepted good practice.

Sufficient compressive and tensile strength to withstand dynamic loading is required. Good surface strength is essential but too dense a surface caused by over trowelling or finishing with steel floats can lead to adhesion failure. Consult Sika Technical Services Department for advice on concrete mix design, finishing methods and surface texture requirement for individual systems. On the existing substrates, laitance or concrete contaminated with oils, greases etc. should be completely removed by mechanical means to ensure the adhesion of the coating or overlay. Finally en-

sure the surface is dust free, using an industrial vacuum. Specialist finishes should not be applied to concrete which contains more than 5% moisture by mass. The substrates can be considered sufficiently dry when the relative humidity at the surface falls to 75% or less when measured with a hygrometer to BS 8201: 1987, Appendix A. Prior to application, SikaEmaco® P 102 should be stored under cover and in dry conditions and protected from extremes of temperature which will cause inconsistent workability and cure times of the mixed material. Application in cold conditions should be halted if the ambient temperature is likely to fall below 10°C. Consideration should be given to the substrate or base slab as it may be considerably different from the surrounding air temperature. When temperatures exceed 30°C during application, working times will be reduced significantly. Correct conditioning of the constituents is essential.

### MIXING

SikaEmaco® P 102 is a two-component product consisting of a base and reactor. The components are pre-weighed and should not be split or divided. Mixing of the base and reactor should continue for at least 1-2 minutes to produce a fully blended uniform material.

### APPLICATION

SikaEmaco® P 102 is applied by brush or roller and worked well into the surface. Apply according to stated coverage. If allowed to cure, re-apply within 24 hours. The following coverage rate has been calculated using theoretical and practical data. Coverage will vary according to the nature of the substrate.

### CLEANING OF EQUIPMENT

Remove SikaEmaco® P 102 from tools and equipment using a suitable thinner (Xylene / MEK / Acetone) immediately after application. Hardened and/or cured 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.

### 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

Sika Construction Chemicals for  
Manufacturing LLC  
Riyadh / Jeddah / Dammam / Rabigh  
Tel: +966 12 692 7079  
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)  
- Sika MB Construction Chemicals for Manufacturing LLC  
- Sika Saudi Arabia Limited  
- Sika Kuwait Cons. Mat. & Paints Co WLL  
- Sika Oman LLC

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.



### Product Data Sheet

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