

PRODUCT DATA SHEET

SikaEmaco® P 157 (formerly MEmaco® P 157)

SBR acrylic based bonding and polymer modifying agent for concrete and mortars

DESCRIPTION

SikaEmaco P 157 is an aqueous emulsion of styrene-butadiene copolymer latex, specially formulated for use in cementitious mixtures to improve wear resistance, durability, waterproofing and bonding properties.

SikaEmaco P 157 is also compatible with sulphate-resisting or high alumina cement and gypsum plaster.

USES

SikaEmaco P 157 is the ideal SBR-latex recommended for use:

- With cement as a bonding slurry
- In weather resistant exterior or interior renderings
- In floor screeds and toppings, or plasters for improved chemical resistance
- In repair of honeycombed and spalled concrete, beams and precast elements
- Water resistant screeds in wet areas

FEATURES

- Easy to use – add to mixing water to improve mortars and screeds
- Economical – Can create a range of polymer modified mortars and screeds with simple variations with lower cement contents
- Improved workability – mortars easier to apply
- Addition of acrylic - Improved bonding and impermeability and resistance to salts and other chemicals
- Controlled shrinkage - Reduced cracking tendency

PRODUCT INFORMATION

Packaging	25 Liter pails; 200 Liter drums.
Shelf life	12 months.
Storage conditions	Store out of direct sunlight and discard if subject to freezing.

TECHNICAL INFORMATION

Compressive Strength	55-65 MPa
Flexural Strength	10-13 MPa

Tensile Strength	5-7 MPa
Linear temp. expansion coefficient at 20°C	12.8x10 ⁻⁶ mm/m°K
Bond (to substrate)	>1.5 MPa
Frost/Thaw resistance	Resists alkalis, chlorides, lactic acids, sugar etc.
VOC content SQAQMD 304-91	50 g/L
<i>The performance data is typical and based upon controlled laboratory conditions. Actual performance on the job site may vary from these values based on actual site conditions.</i>	
Supply form	milky white liquid
Specific gravity	1.01
pH value	approx 10.5
Storage temperature	sensitive to frost
Application temperature	not below 5°C
Solids Content	47%

APPLICATION

Substrate condition	The substrate must be clean, sound and free of dust and loose particles, cement laitance, oil, grease, mould release oil or curing compounds which must be removed from concrete surfaces by using gritblasting or other means. Steel reinforcing bars clean to a minimum grade of SA 2 according to ISO 8501-1 / ISO 12944-4. For extra protection, or when the steel is left exposed before repair work is completed, apply SikaEmaco N 5000 CI active protection cement based primer. When repairing spalled or deteriorated concrete, ensure that the concrete has been cut back to sound material. Before applying SikaEmaco P 157, be sure to pre-wet the concrete substrate thoroughly to saturate the pores completely with water. During application of SikaEmaco P 157, the temperature of the substrate should not be below 5°C. To avoid too high a surface temperature, it is advisable to shade application areas.
Mixing	Stir well before addition to mortar mixes. Mortars should be mixed in a pan type mixer or by means of a low speed Mixer (300-600rpm) with a helical paddle. Hand mixing is not recommended.
Method of use	Bonding slurry (priming) - Apply a slurry onto the still damp substrate, consisting of 1 part SikaEmaco P 157 and 1 part by volume of cement, with a stiff brush. The mortar must be placed wet-on-wet. If the slurry does dry, a further slurry coat must be applied. Renderings and repair mortars (to vertical surfaces) - After brushing the bonding slurry onto the prepared surface, apply immediately SikaEmaco P 157 modified mortar (1:2 to 1:3), in average thicknesses of 10mm, as thicker layers tend to sag. However, several layers can be applied

	in quick succession. If thicker layers are applied, suitable formwork has to be used. Screed and toppings (to horizontal surfaces) - Always place screed, topping or patching mortar onto the still wet bonding slurry. Use low water- cement ratio for thick layers of mortar. Depending on use and exposure of the flooring mortar, premix the mixing water with SikaEmaco P 157 in ratio of 1 part SikaEmaco P 157 to 1-4 parts of water by volume. For extreme conditions, i.e. if adhesion, waterproofing, vapour resistance or chemical resistance is critical, the recommended ratio is 1:1, in case of low loading or stress, mix 1:4.
Curing	Freshly applied screeds and renderings, when mixed with SikaEmaco P 157, should be kept damp and be protected from direct sunlight, rain, wind or frost, until sufficiently hardened. Excessive rapid drying may cause shrinkage, insufficient strength and other defects.
Precautions	For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the Safety Data Sheet (MSDS) from our office or our website.
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	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.
Cleaning of tools	Clean all tools and application equipment with Thinner C or Sika® Remover-208 immediately after use. Hardened and/or cured 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

