

PRODUCT DATA SHEET

SikaEmaco® S 466 PK

PUMPABLE, FREE FLOWING, SHRINKAGE COMPENSATED MICRO-CONCRETE FOR GROUTING AND REPAIR

DESCRIPTION

SikaEmaco® S 466 PK is a cementitious, pre-bagged, free flowing, one component, non-shrink precision micro-concrete with high early and ultimate strength. Suitable for use in hot and tropical climatic conditions.

USES

SikaEmaco® S 466 PK precision micro-concrete is used for repair and grouting in various applications such as:

- Structural repair of deteriorated concrete
- Columns in precast construction.
- Casting sections or members where the volumes required are too large for conventional grouts, and too small and inaccessible for normal concreting applications.
- Cavities, gaps and recesses.
- Re-profiling of damaged concrete members and re-profiling of pile tops using formwork for both pouring and pumping techniques.

CHARACTERISTICS / ADVANTAGES

SikaEmaco® S 466 PK is an easy to use precision micro-concrete requiring only the addition of water. It offers the following beneficial properties:

- Easy to mix
- Very good flow characteristics
- Adjustable consistency
- Moderate heat of hydration
- Shrinkage compensated
- High final strength
- Non-flammable
- Vapour permeable
- Compatible with the properties of typical concrete

APPROVALS / STANDARDS

SikaEmaco® S 466 PK follows the main requirements for nonshrink hydraulic cement grout, according to ASTM C1107 and EN 1504

PRODUCT INFORMATION

Chemical Base	Portland cement, selected fillers and aggregates, special additives.
Packaging	25 kg
Appearance / Colour	Grey powder
Shelf Life	6 months minimum from date of production
Storage Conditions	Store in original unopened packaging in a cool and dry condition between +5 °C and +35 °C. Protect from direct sunlight, heat and moisture.
Maximum Grain Size	≈ 4 to 5 mm

Compressive Strength	≥ 25 MPa 1 day ≥ 35 MPa 3 days ≥ 45 MPa 7 days ≥ 65 MPa 28 days (ASTM 1107 / ASTM C109/70mm)
Mixing Ratio	0.14
Yield	≈ 12.5 L
Layer Thickness	Min. 25 mm per pour Max. 150 mm per pour
Ambient Air Temperature	+5 °C min. / +35 °C max.
Substrate Temperature	+5 °C min. / +35 °C max.
Pot Life	≈ 20 min
Fresh mortar density	≈ 2.2 - 2.4 Kg/L

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.

USES

- Ensure formwork is secure and watertight to prevent movement and leaking during placing and curing.
- When maximum thickness exceeds 150 mm, consider the use of Sikacrete® -114 AE.
- At high temperatures, use chilled water for mixing to keep the grout temperature below 30 °C.
- In hot weather, base plates and foundations must be shaded from direct sunlight. Condition bags < 30 °C prior to use.
- Depending on requirements and site condition, the addition of dry, single size, clean coarse aggregates is possible ("bulking") up to 100 % by weight of the dry grout powder. Trials are recommended to confirm suitability of aggregates to be employed.
- For additional information on SikaEmaco® S 466 PK or other grouting materials contact Sika Technical Department

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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete:

The concrete shall be thoroughly clean, rough, free from dust, loose material, surface contamination and materials which reduce bond or prevent suction or wetting by repair materials. De-laminated, weak, damaged and deteriorated concrete and where necessary sound concrete shall be removed by suitable means. The application of a suitable bonding agent, such as Sikadur®-32 LP, Sikadur® ADH 1414 or SikaTop® Armatec®-110 EpoCem®, will improve adhesion on large areas or where particularly dense concrete substrates are involved.

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 reg-

ulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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Product Data Sheet

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