

PRODUCT DATA SHEET

Sika® Poro®-40

FOAMING ADMIXTURE

DESCRIPTION

Sika® Poro®-40 is a liquid foaming admixture formulated to provide low density concrete and mortar.

USES

Sika® Poro®-40 is especially suitable for any application where stable low density concrete and mortar is required.

Sika® Poro®-40 is mainly used for the following applications:

- Production of low density concrete and mortar

- Void fill
- Lightweight construction
- Filling utility trenches and pipes (backfill)
- Variable use in different concrete systems with different raw materials.

CHARACTERISTICS / ADVANTAGES

Sika® Poro®-40 is especially suitable for application via a foam generator.

- Strong foaming properties allow for the production of densities as low 500 kg/m³
- Less segregation and bleed.
- Provide improved flowability and pumpability

PRODUCT INFORMATION

Composition	Surfactant blend
Packaging	25 L drum, 1000 L IBC
Appearance / Colour	Clear liquid
Shelf life	12 months from date of production if stored properly in undamaged and unopened original sealed packaging.
Storage conditions	Store in dry conditions at temperatures between +5 °C and +25 °C. Protect from direct sunlight and frost.
Density	1.02 ± 0.02 kg/L (+25 °C)
pH-Value	7.5 ± 1.0
Total Chloride Ion Content	< 0.1 % w/w
Equivalent Sodium Oxide	< 1.1 % Na ₂ O w/w

TECHNICAL INFORMATION

Concreting Guidance

The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials shall be carried out before concreting on site, especially when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and curing applied as early as possible.

SYSTEMS

Compatibility	Sika® Poro®-40 may be combined with many other Sika products. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information and advice about any specific combinations.
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APPLICATION INFORMATION

Recommended Dosage	0.3 - 1.0 % by weight of cement
Restrictions	The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials shall be carried out before concreting on site, especially when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and curing applied as early as possible.
Equipment	Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

APPLICATION INSTRUCTIONS

DISPENSING

Performance will be greatly enhanced if dispensed via a foam generator.

Sika® Poro®-40 is added to the gauging water or added with it into the concrete mixer.

A wet mixing time, which is depending on the mixing conditions and mixer performance, of at least 60 seconds is recommended.

When added on site the truck mixer shall rotate its drum at maximum revolutions for at least 1 minute per m³ concrete and a minimum of 5 minutes to achieve a uniform mix.

IMPORTANT CONSIDERATIONS

- When using Sika® Poro®-40 a suitable mix design has to be taken into account and local material sources shall be trialled.
- Sika® Poro®-40 shall not be added to dry cement.
- Depending on the volume of the low density concrete or mortar placed, and placement method e.g. piumping, a volume change may occur.
- Support from our Technical Service Department is recommended.

Frost:

- It frozen and/or if precipitation has occurred, Sika® Poro®-40 may be used after thawing slowly at room temperature followed by intensive remixing.

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.

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 the exact product data and uses.

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.

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.

PT. Sika Indonesia Head Office and

Jl. Raya Cibinong-Bekasi Km.20
Limusnunggal-Cileungsi
Bogor 16820-Indonesia
Tel. +62 21 8230025, Fax +62 21 8230026
Web: idn.sika.com
Email: sikacare@id.sika.com



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