

PRODUCT DATA SHEET

Sika® PerFin-300

SPECIAL CONCRETE ADMIXTURE FOR IMPROVING FINAL SURFACE AND REDUCING SURFACE PORES IN CASES OF FAIR FACED CONCRETE APPLICATIONS



DESCRIPTION

Sika® PerFin-300 is a liquid concrete admixture for improving finished concrete surfaces by the reduction of pores and blowholes in the concrete surface.

USES

Sika® PerFin-300 is used for the production of high quality fair faced and architectural concrete for all of the following:

- Structural concrete
- Precast concrete
- Concrete with high aesthetic demands

CHARACTERISTICS / ADVANTAGES

With the application of Sika® PerFin-300 the air voids introduced during the production process are greatly reduced and as a result, blowholes or open pores on the concrete surface are also reduced.

Sika® PerFin-300 provides the following advantages:

- Improved concrete surface
- No negative effects on the fresh or hardened concrete properties

Sika® PerFin-300 does not contain chlorides or any other ingredients which promote the corrosion of steel. It is therefore suitable for use in reinforced and prestressed concrete structures.

APPROVALS / CERTIFICATES

CE-marking and Declaration of Performance as Water resisting admixture according to EN 934-2:2009 (T.9), based on certificate of factory production control issued by notified factory production control certification body and type testing.

PRODUCT INFORMATION

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|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Chemical base | Modified polyol |
| Packaging | 200 kg drums 25 lt container |
| Appearance / Colour | Yellowish liquid |
| Shelf life | 12 months from date of production if stored properly in original, unopened packaging, at temperatures between +5°C and +30°C. |
| Storage conditions | Storage temperatures between +5°C and +30°C. Protect from direct sunlight and frost. |
| Density | ~ 0.97 g/cm ³ (at +20°C) |
| pH-Value | 3.7 ± 0.5 |
| Viscosity | Max. 500 mPa s at +20°C |
| Total Chloride Ion Content | < 0.10 M-% (chloride-free) |

TECHNICAL INFORMATION

Concreting Guidance

The standard rules of good concreting practice, concerning production as well as 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.

Specific Advice

High quality concrete surfaces require next to Sika® PerFin-300 also the use of a suitable concrete mix design, formwork and mould release agent.

APPLICATION INFORMATION

Recommended Dosage

0.2 - 0.5 % by weight of cement, usually 1 kg/m³

Compatibility

Sika® PerFin-300 may be combined with many other Sika products. Sika® PerFin-300 should not be combined with Sika-Air® Fine and air-entraining admixtures in general. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service for information and advice about any specific combinations.

Dispensing

Sika® PerFin-300 is added to the gauging water or added with it into the concrete mixer. To achieve the optimum reduction of blowholes a wet mixing time of 90 seconds is recommended.

Restrictions

- When using Sika® PerFin-300 a suitable mix design has been taken into account and local material sources should be trialled.
- Sika® PerFin-300 should not be added to the dry cement and aggregate mix.
- Sika® PerFin-300 cannot be used in combination with air entraining admixtures.
- The product's activity depends on the mix design, the mould's type and the demoulding agent.
- Before application to the large scale production, suitability tests must be performed and especially in cases of adaptation of new mix design or during the production of new concrete elements.
- For special applications, please consult Sika Hellas.

IMPORTANT CONSIDERATIONS

- When using Sika® PerFin-300 a suitable mix design has to be produced and the local material sources shall always be trialled.
- If frozen and/or if precipitation of the product has occurred, Sika® PerFin-300 may be used after thawing slowly at room temperature and intensive mixing.
- Before application, suitability tests must be performed.

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.

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.

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.

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