

PRODUCT DATA SHEET

Sika ViscoFlow® -25 ZA

Workability Enhancing admixture

DESCRIPTION

Sika® ViscoFlow® -25 ZA is a workability enhancing admixture for concrete based on Sikas PCE technology. Sika® ViscoFlow® -25 ZA extends the workability time without a negative effect on early strength development.

USES

Sika® ViscoFlow® -25 ZA is especially suitable for concrete mixes with extended workability requirements as well as improved flow characteristics.

Sika® ViscoFlow® -25 ZA is mainly used for the following applications:

- Any concrete in hot/cold weather with extended transportation and workability time.
- Suitable for a wide range of applications with high or low water / cement ratio and/or high or low environment temperatures
- Define the workability time based on project requirements without a negative effect on early strength development

CHARACTERISTICS / ADVANTAGES

Sika® ViscoFlow® -25 ZA works based on a combination of electrostatic adsorption and steric repulsion effects. Thus, solid particles can be effectively dispersed and a high level of fluidity can be reached with less water.

As a result, Sika® ViscoFlow® -25 ZA can provide higher workability time and stability than conventional dispersants.

- Compatibility with other additives
- Keeps workability for extended time
- Slump retention without additional retardation and subsequent fast strength development
- Constant slump flow and smoothness of the concrete over hours.
- Improved workability with concrete containing poor quality aggregates

Sika® ViscoFlow® -25 ZA 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 / STANDARDS

Conforms to the requirements of EN 934 – 2, Table 10.

PRODUCT INFORMATION

Chemical Base	Modified polycarboxylate in water
Packaging	200Ltr drums (non returnable). 1000 litre IBC's
Appearance / Colour	Clear light brown liquid
Shelf Life	12 months from date of production
Storage Conditions	Store in undamaged and unopened packaging, in dry conditions at temperatures between +5°C and +30°C. Protect from direct sunlight and frost.
Density	1.08 kg/l (at +20°C) ± 0.05

APPLICATION INFORMATION

Recommended Dosage	0.4 - 1.6% by weight of cement
Compatibility	Sika® ViscoFlow® -25 ZA 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.
Dispensing	Sika® ViscoFlow® -25 ZA is added to the gauging water or added with it into the concrete mixer. To take advantage of the workability enhancing ability, a wet mixing time, which is depending on the mixing conditions and mixer performance, of at least 60 seconds is recommended. To avoid excess water in the concrete, the final dosage must begin only after 2/3 of the wet mixing time.

LIMITATIONS

When using Sika® ViscoFlow® -25 ZA a suitable mix design has to be taken into account and local material sources shall be trialled.

Sika® ViscoFlow® -25 ZA shall not be added to dry cement. Excessive water addition or overdosing may cause bleeding or segregation.

Frost: If frozen and / or if precipitation has occurred, Sika® ViscoFlow® -25 ZA may be used after thawing slowly at room temperature followed by intensive re-mixing.

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

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.

Sika South Africa (Pty) Ltd

9 Hocking Place,
Westmead, 3608
South Africa
Phone +27 31 792 6500
www.sika.co.za



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