

PRODUCT DATA SHEET

Sika ViscoFlow[®]-1005

High range water reducing/superplasticising concrete admixture with enhanced workability retention

PRODUCT DESCRIPTION

Sika ViscoFlow[®]-1005 is a liquid admixture for concrete based on the latest generation of polycarboxylate polymer technologies. Sika ViscoFlow[®]-1005 is designed as a high range water reducer or superplasticiser. It is particularly suited for use in concretes that require low water/cement ratios and/or high water reductions with excellent workability retention properties.

USES

Typical applications include:

- Applications that require extended consistence retention without delayed setting
- Suitability for use across broad range of consistence classes from S3 – SF3
- High performance concrete
- Self compacting concrete
- High rise/pumped concrete
- Improved effectiveness in higher ambient temperatures

PRODUCT INFORMATION

| | |
|-----------------------------------|---|
| Chemical Base | Modified polycarboxylate |
| Packaging | 20 L container & 1000 L IBC |
| Appearance / Colour | Pale straw liquid |
| Shelf Life | 12 months from date of production if stored properly in undamaged containers. |
| Storage Conditions | Store in dry conditions at temperatures between +5°C and +25°C. Protect from direct sunlight and frost. |
| Total Chloride Ion Content | <0.1% w/w (chloride free) |
| Equivalent Sodium Oxide | <0.50 % w/w (alkali content) |
| Specific gravity | 1.07 kg/L |

CHARACTERISTICS / ADVANTAGES

- High range water reductions resulting in higher strengths and densities
- Extended consistence retention
- Improved cohesion properties
- Improved early and ultimate strengths
- Excellent placement characteristics
- Improved rheology
- Improved durability
- Reduced segregation and bleeding
- Reduced drying shrinkage
- Reduced mix costs

APPROVALS / STANDARDS

Conforms to the requirements of BS EN 934-2 Tables 3.1 & 3.2

DoP 74877907, certified by Factory Production Control Body 1029 and provided with the CE mark

TECHNICAL INFORMATION

Specific Advice

Freezing Point: +1°C
Air Entrainment: Negligible, minimal increase
Effect on Setting: Extension to normal setting time
Effect of Overdosing: Increased workability and segregation

APPLICATION INFORMATION

Recommended Dosage

0.3 - 0.8% by weight of cement

Compatibility

Sika ViscoFlow®-1005 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®-1005 should be dispensed through suitable calibrated dosing equipment.
Sika ViscoFlow®-1005 is added to the gauging water or added with it into the concrete mixer.

Restrictions

- When using Sika ViscoFlow®-1005 a suitable mix design has to be taken into account and local material sources shall be trialled.
- Sika ViscoFlow®-1005 shall not be added to dry cement.
- Excessive water addition or overdosing may cause bleeding or segregation.
- Support from our Technical Service Department is recommended.

VALUE BASE

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

REGULATION (EC) NO 1907/2006 - REACH

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains 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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