

PRODUCT DATA SHEET

Sika® ViscoCrete® Duo Pro

Combined Superplasticiser / Viscosity Modifying Admixture for GRC Precast Concrete Production

PRODUCT DESCRIPTION

Sika® ViscoCrete® Duo Pro is a liquid high performance superplasticiser and viscosity modifying admixture providing improved rheology and robustness to high workability concretes and cementitious mortars. Sika ViscoCrete Duo Pro is based on polycarboxylate polymers.

USES

Sika® ViscoCrete® Duo Pro is a unique product that is specifically designed for the production of GRC precast concrete

CHARACTERISTICS / ADVANTAGES

- High-range water reductions resulting in higher strengths and densities
- Improved cohesion properties in highly fluid concrete or SCC
- Improved durability
- Improved early and ultimate strengths
- Optimal rheology properties for SCC production
- Reduced segregation and bleeding
- Reduced drying shrinkage
- Reduced consistence retention

APPROVALS / STANDARDS

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

DoP 71831259, certified by Factory Production Control Body 1029 and provided with the CE mark
DoC 40241154, certified by Factory Production Control Body 0120 and provided with the UKCA mark

PRODUCT INFORMATION

| | |
|----------------------------|--|
| Chemical Base | Modified polycarboxylate |
| Packaging | 1000 L IBC |
| Shelf Life | 12 months from date of production if stored properly in undamaged containers. |
| Storage Conditions | Dry conditions at temperatures between +5°C and +25°C. Protect from direct sunlight and frost (freezing point +1°C). |
| Appearance / Colour | Light brown liquid |
| Density | 1.09 kg/L |
| Total Chloride Ion Content | <0.10% w/w (chloride free) |
| Equivalent Sodium Oxide | <0.35 % w/w (alkali content) |

TECHNICAL INFORMATION

Specific Advice

Effect on Setting: Reduction in setting time
Effect of Overdosing: Increased workability and segregation

APPLICATION INFORMATION

Recommended Dosage

0.3 - 1.2% by weight of cement

Dispensing

Sika® ViscoCrete® Duo Pro is added to the gauging water or added with it into the concrete mixer. A typical mixing time of at least 60 seconds is recommended.

Compatibility

Sika® ViscoCrete® Duo Pro is compatible with all Sika admixtures and cement types

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.

LIMITATIONS

When using Sika® ViscoCrete® Duo Pro a suitable mix design has to be taken into account and local material sources shall be trialled.

Excessive water addition or overdosing may cause bleeding or segregation.

Support from our Technical Service Department is recommended.

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

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.

APPLICATION INSTRUCTIONS

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.

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.

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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Product Data Sheet

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