

PRODUCT DATA SHEET

Sika® ViscoCrete® SKY 3612

(formerly MasterGlenium® SKY 3612)

High Range Water Reducing Workability - Retaining Admixture

DESCRIPTION

Sika® ViscoCrete® SKY 3612 admixture is a revolutionary new technology superplasticiser, based on significant advances in admixture chemistry. **Sika® ViscoCrete® SKY 3612** admixture is used as part of an admixture system to provide customized admixture solutions for a wide range of concrete applications. **Sika® ViscoCrete® SKY 3612** admixture is a workability-retaining admixture that provides flexible degrees of slump retention without retardation.

Sika® ViscoCrete® SKY 3612 admixture provides the concrete producer with the ability to immediately create the optimal admixture system for changing and fluctuating regional raw materials, environmental conditions, and project requirements. **Sika® ViscoCrete® SKY 3612** admixture gives the concrete producer the ability to consistently produce and deliver quality concrete mixtures. **Sika® ViscoCrete® SKY 3612** admixture also offers improved water reduction for high water demand mix designs and or aggregates.

USES

- Concrete with varying slump requirements.
- Concrete mixtures utilizing supplementary cementitious materials.
- Concrete where high flowability, increased stability and durability are needed.
- Ready-mixed and precast concrete.

- Production of self-consolidating concrete in (SCC) mixtures.
- Improved water reduction for materials with high water demand characteristics.

CHARACTERISTICS / ADVANTAGES

- Workability retention without retardation.
- Flexible levels of workability retention by adjusting the dosage.
- Improved early and late-age compressive strengths.

Sika® ViscoCrete® SKY 3612 offers the following benefits:

- Promotes greater consistency of concrete workability at the job site.
- Promotes consistency in compressive strengths via minimized job site addition of water.
- Minimizes re-dosing of high-range water-reducing admixture at the job site.
- Fewer rejected loads and better customer satisfaction due to consistent quality of concrete.
- Faster truck turn-around time.
- Expanded concrete delivery range.

APPROVALS / STANDARDS

ASTM C 494/C 494M Type S, Specific Performance, admixtures.

PRODUCT INFORMATION

Packaging	Sika® ViscoCrete® SKY 3612 is available in 1000 litre IBC's.
Shelf Life	Sika® ViscoCrete® SKY 3612 admixture has a minimum shelf life of 12 months from date of manufacture. Depending on storage conditions, the shelf life may be greater than stated.
Storage Conditions	Sika® ViscoCrete® SKY 3612 admixture must be stored at temperatures above 5°C. If Sika® ViscoCrete® SKY 3612 admixture freezes, thaw and re-constitute by mechanical agitation. Do not use pressurized air for agitation. Sika® ViscoCrete® SKY 3612 admixture is not UV stable and may experience different colour shades between different batches and/or may darken over time. This does not affect product performance in any way.
Appearance / Colour	Yellowish liquid
Density	1.030 -1.070
pH-Value	4.5 – 6.5

SYSTEM INFORMATION

Compatibility	Sika® ViscoCrete® SKY 3612 admixture is compatible with most admixtures used in the production of quality concrete, including normal, mid-range and high-range water reducing admixtures, air-entrainers, accelerators, retarders, extended set control admixtures, corrosion inhibitors, and shrinkage reducers.
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APPLICATION INFORMATION

Recommended Dosage	Sika® ViscoCrete® SKY 3612 admixture has a recommended dosage range of 600 - 1800 mL/100 kg of cementitious materials.
Dispensing	Sika® ViscoCrete® SKY 3612 admixture can be added with the initial batch water or as a delayed addition. Other dosages may be recommended in special cases or applications according to the specific site conditions or material requirements. In this case, please consult our Technical Services Department for advice.

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.

LIMITATIONS

Non-Chloride, Non-Corrosive: Sika® ViscoCrete® SKY 3612 admixture will neither initiate nor promote corrosion of reinforcing steel embedded in concrete, prestressing steel or of galvanized steel floor and roof systems. Neither calcium chloride nor other chloride-based ingredients are used in the manufacture of Sika® ViscoCrete® SKY 3612.

Do not use Sika® ViscoCrete® SKY 3612 admixture with admixtures containing betanaphthalene sulfonate. Erratic behaviours in slump, workability retention and pumpability may be experienced.

ECOLOGY HEALTH AND SAFETY

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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