

PRODUCT DATA SHEET

Sika® ViscoCrete®-3098 Ease TKO

(formerly ME 3098)

High range water reducing/superplasticizing admixture for concrete with extended consistence retention

DESCRIPTION

Sika® ViscoCrete®-3098 Ease TKO is a superplasticizer, high range water reducer designed to impart exceptional rheological properties to fresh concrete. It improves considerably the placing and finishing of concretes and enhances the ease of concrete pumping for all construction activities.

Chemistry and mechanism of action is what differentiates Sika® ViscoCrete®-3098 Ease TKO from the traditional admixtures, being a new, unique mechanism of action that greatly improves the effectiveness of cement dispersion coupled with rheology improvement.

Traditional plasticisers based on melamine and naphthalene sulphonates are polymers which are absorbed by the cement granules and in presence of manufactured sands require higher dosage for effectiveness.

With this admixture, the polymers wrap around the cement granules at the very early stage of the concrete mixing process. The sulphonic groups of the polymer chains increase the negative charge of the cement particle surface and disperse these particles by electrical repulsion. This electrostatic mechanism causes the cement paste to disperse and has the positive consequence of requiring less mixing water to obtain a given concrete workability.

Sika® ViscoCrete®-3098 Ease TKO has a different chemical structure from the traditional plasticisers. It consists of a carboxylic ether polymer with long side chains. At the beginning of the mixing process it initiates the same electrostatic dispersion mechanism as the traditional plasticisers, but the side chains linked to the

polymer backbone generates a steric hindrance which greatly stabilizes the cement particles' ability to separate and disperse. Steric hindrance provides a physical barrier (alongside the electrostatic barrier) between the cement grains.

With this process, flowable concrete with greatly reduced water content with better rheology is obtained with Sika® ViscoCrete®-3098 Ease TKO.

USES

- Ready mixed concrete using manufactured sands
- Long-distance transporting
- Pumped concrete
- High workability without segregation or bleeding
- High performance concrete for durability

CHARACTERISTICS / ADVANTAGES

- Good dispersion in mixes with high manufactured sand contents
- High workability for longer periods
- Lower pumping pressure with manufactured sands
- Resistance to segregation even at high workability
- Extended setting with longer workability
- Reduced water content for a given workability
- Higher ultimate strengths
- Increased ease in finishing concrete with poor aggregates / gap graded aggregates

APPROVALS / STANDARDS

Comply with BS EN 934

PRODUCT INFORMATION

Packaging	205 litre drum or bulk delivery
Appearance / Colour	Light Brown Liquid
Shelf Life	12 months from date of production
Storage Conditions	Store properly in undamaged and unopened original sealed packaging in cool and dry conditions. Protect from direct sunlight and frost.
Specific gravity	1.050 ± 0.02 kg/litre

APPLICATION INFORMATION

Recommended Dosage	<p>Sika® ViscoCrete®-3098 Ease TKO is a versatile admixture with a dose rate of 700 to 3000 mls per 100kg of cementitious material. An increase in dose rate results in an increase in water reduction.</p> <p>The improved pumpability and rheology aspects of Sika® ViscoCrete®-3098 Ease TKO are enhanced with increasing dose rate. The correct dosage rate in each instance should be determined by correctly conducted trials under the supervision of local Sika representatives.</p>
Compatibility	<ul style="list-style-type: none">▪ Not compatible with admixtures containing sulfonated naphthalene formaldehyde condensates (BNS).▪ Can be used with other Sika admixtures to achieve cost effective customised performance. However, those admixtures should be dispensed separately and added separately to ensure complete distribution throughout the mix.▪ Should not be used in conjunction with other admixtures unless specific test information is available.
Dispensing	<p>Sika® ViscoCrete®-3098 Ease TKO is a ready-to-use liquid which is dispensed into the concrete together with the mixing water.</p> <p>The plasticising effect and water reduction are higher if the admixture is added to the damp concrete after 50 to 70% of the mixing water has been added. The addition of Sika® ViscoCrete®-3098 Ease TKO to dry aggregate or cement is not recommended.</p>

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.

ECOLOGY, HEALTH AND SAFETY

Sika® ViscoCrete®-3098 Ease TKO does not contain any hazardous substances requiring labeling. It is safe for use with standard precautions followed in the construction industry, such as use of hand gloves, safety goggles, etc. For detailed Health, Safety and Environmental Recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

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. 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.

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