

## PRODUCT DATA SHEET

# Sika® ViscoCrete® ACE 8305

(formerly MasterGlenium® ACE 8305)

### ENGINEERED SUPERPLASTICIZER FOR HIGH EARLY STRENGTH

#### DESCRIPTION

Sika® ViscoCrete® ACE 8305 is modified poly-carboxylic ether (PCE) based superplasticizer. A specifically formulated active ingredient, designed with Sika® ViscoCrete® ACE 8305 offers excellent dispersion of cement at low water binder ratio and exceptional early strength development. The rapid development of early strength of Sika® ViscoCrete® ACE 8305 allows for zero or minimum application of heating curing processes. The combination of early strength, slump retention and late strength development allows meet demanding Sika® ViscoCrete® ACE 8305 to concreting requirements, often exceeding the performance of conventional superplasticizers. Sika® ViscoCrete® ACE 8305 meets ASTM C494/C494M requirements for Type F and it is also compatible with all cements meeting the ASTM standards.

#### USES

Sika® ViscoCrete® ACE 8305 is especially suitable for concrete used in the construction of precast elements which requires good workability and high early and final strengths, such as:

- Production of load bearing precast elements (e.g. bridge girders, piles, concrete housing).
- Precast concrete tunnel lining.
- In-situ casting of structural elements.

#### FEATURES

- High water reduction capacity over conventional superplasticizers.
- Superior slump retention, including mid-range slumps.
- Low permeability and high durability concrete.
- Optimize curing cycle by shortening curing time or decreasing curing temperature.
- Eliminate energy required for placing, consolidation and curing.
- Improved surface appearance and concrete quality.

#### PRODUCT INFORMATION

<b>Composition</b>	Aqueous solution of modified polycarboxylate copolymers
<b>Packaging</b>	205 L drums (non-returnable) 1 000 L bulk delivery
<b>Shelf life</b>	12 months from date of production if stored properly in undamaged, unopened, original sealed packaging.
<b>Storage conditions</b>	Store in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost.
<b>Appearance</b>	Liquid

# TECHNICAL INFORMATION

<b>Concreting guidance</b>	The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials before concreting on site are strongly recommended when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and as early as possible.
<b>Recommended dosage</b>	0.5 – 2.0 L per 100 Kg of cementitious. Other dosages may also be used depending on the specific working conditions. Trial mixes should be made with job materials to determine the optimum dosage required for a specified job requirement.
<b>Compatibility</b>	Sika® ViscoCrete® ACE 8305 may be combined with the following products: <ul style="list-style-type: none"><li>▪ Sika® Plastiment® Series</li><li>▪ Sika Viscoflow® Series</li><li>▪ SikaFume®</li><li>▪ SikaFiber®</li></ul> Do not use viscocrete or viscoflow series combined with sikament series. To produce flowing and or self-compacting concrete, special concrete mix design is required. Pre-trials are recommended and mandatory if combinations with the above products are required. Please consult to our Technical Service Department.

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## ECOLOGY, HEALTH AND SAFETY

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

### APPLICATION

Sika® ViscoCrete® ACE 8305 is a ready-to-use admixture to be added to the concrete mix. Optimal mixing is obtained if Sika® ViscoCrete® ACE 8305 is poured into the concrete mix right after the addition of the first 80% of the mixing water. Avoid adding the admixture to the dry aggregates. A separate dispenser and feed line must be used.

### PT. Sika Indonesia Head Office and Manufacturing

Jl. Raya Cibinong-Bekasi Km.20  
Limusunggal-Cileungsi  
Bogor 16820-Indonesia  
Tel. +62 21 8230025, Fax +62 21 8230026



**Product Data Sheet**  
Sika® ViscoCrete® ACE 8305  
October 2024, Version 01.01  
021301000000002437

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## 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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