

PRODUCT DATA SHEET

Sika® ViscoCrete®-20 HE NG

HIGH RANGE WATER REDUCER / SUPERPLASTICISER

DESCRIPTION

Sika® ViscoCrete®-20 HE is a liquid admixture for concrete and mortar which is used as high range water reducer or superplasticiser. Sika® ViscoCrete®-20 HE is designed to work on a combination of electrostatic adsorption and steric repulsion effects allowing solid particles to be effectively dispersed. Therefore a high level of fluidity and plasticising can be reached with a high water reduction which provides many advantages.

USES

Production of concrete mixes which require high early strength development, powerful water reduction and improved flowability.

- Precast concrete
- Fast-track concrete
- In situ concrete requiring fast stripping time
- Self Compacting Concrete (SCC)

FEATURES

▪ High water reduction ▪ High final density and strength properties ▪ Reduced shrinkage, creep, water permeability, etc Improved flowability, placing and compacting behaviour ▪ Improved surface finish ▪ Increased early strength development ▪ Early removal of formwork ▪ Reduced curing ▪ Does not contain chlorides Suitable for use in reinforced and pre-stressed concrete

PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxylates
Packaging	1000 litres IBC, <ul style="list-style-type: none">▪ 200 litres Drum,▪ 25 litres Kg
Shelf life	12 months from date of production

Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +45 °C. Always refer to packaging.
Colour	Brown
Density	1,09 +/- 0.02
pH-Value	6 +/- 1
Concreting guidance	The standard rules of good concreting practice, concerning production and placing must be followed. Laboratory trials must 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
Recommended dosage	0,4 - 3 % by weight of cement, depending on the requested performance of the concrete. Usual dosage : 0.5 - 2 % by weight of cement. It is advisable to carry out trial mixes to establish the exact dosage rate required.
Dispensing	SikaViscocrete [®] 20HE must be measured using suitable equipment then added to the batching gauging water or both added together at the same time into the batching plant concrete mixer. To achieve the optimum performance, a wet mixing time at the batching plant of at least 60 seconds is recommended (dependant on mixing conditions and mixer performance). SikaViscocrete [®] 20HE also be added to the concrete immediately prior to discharge and after further mixing has taken place for at least five more minutes.
Compatibility	Sika [®] ViscoCrete [®] -20 HE may be combined with many other Sika products. Trials must always be carried out before combining products in specific mixes. Contact Sika Technical Services for additional information and any specific combinations.

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

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

Sika Manufacturing Nigeria Limited

10, Western Industrial Avenue, Isheri

Riverview Estate,

Lagos - Ibadan Expressway, Ogun State,

NIGERIA

Web: ng.sika.com

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.

SikaViscoCrete-20HENG-en-NG-(08-2024)-1-1.pdf

PRODUCT DATA SHEET

Sika[®] ViscoCrete[®]-20 HE NG

August 2024, Version 01.01

021301011000004426