

PRODUCT DATA SHEET

Sika ViscoFlow[®]-3110 NG

Multi purpose super-plasticizer / High range water reducer and slump retaining admixture

DESCRIPTION

Sika ViscoFlow[®] 3110 is an improved, new generation, non-chlorinated, acrylic copolymer superplasticizer / high-range water-reducing and slump-retaining admixture.

USES

SikaViscoFlow[®] 3110 is used for concrete in precast plants, on site and for ready mix concrete. ViscoFlow[®] 3110 is used for concrete that need to be transported over long distance or with extended application time.

ViscoFlow[®] 3110 is added for production of:

- Plastic to fluid concrete.
- Low W/C ratio concrete with or without silica fume.
- Concrete with high water reduction (up to 35%) and improved strength.
- Concrete with air entraining

FEATURES

ViscoFlow[®] 3110 combines several actions. Adsorption to the surface and separation of fines particles by steric hindrance during the hydration process give the following properties:

Extended workability.

- High water reduction (consequently high waterproofing and resistances).
- High fluidity (consequently easier application).
- High short term resistance.
- High waterproofing improvement.
- Better creeps and shrinkage behaviour.
- Lower carbonation speed.

ViscoFlow[®] 3110 does not contain any chloride or other component which could cause or increase steel corrosion. It can be used without restriction for reinforced or prestressed concrete constructions.

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PRODUCT INFORMATION

Composition	Polycarboxylates PCE
Packaging	Bulk, 1000 litre Container, 200 litre Drum, 25 litre Keg
Colour	Light yellow liquid
Shelf life	12 months minimum from production date.
Storage conditions	Should be stored properly in original unopened, sealed and undamaged packaging. Store in a dry area between 5°C and 35 °C. Protect from direct sunlight.
Density	1.10 ± 0.01kg/l
pH-Value	5 +/- 1
Recommended dosage	Recommended dosage: <ul style="list-style-type: none">▪ 0.2 to 2% of the cement weight depending on performances required. Usual dosage: <ul style="list-style-type: none">▪ 0.4 to 1.5% of the binder weight
Dispensing	In the case of immediate addition in the works, we recommend that Sika ViscoFlow®-3110 is mixed in at the end of the water addition to the concrete mixture and before other concrete additives. To obtain optimum utilisation of the liquefaction potential, we recommend a wet mixing time of at least 30 seconds with optimal mixing. Commence the fine water dosage after at least 2/3 of the wet mixing time to prevent too soft consistencies. With post-dosing on the building site, we recommend the use of the same superplasticizer as that utilised in the works. When adding to the truck mixer, a uniform distribution of the superplasticizer in the concrete must be ensured. For this purpose, we recommend that the superplasticizer is added on the concrete. The mixing time should be 1 minute per m ³ , however at least 5 minutes

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

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety related data.

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 cur-

rent 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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