

PRODUCT DATA SHEET

SikaPlast®-2120

Multi-purpose Superplasticizer / Middle Range Water-Reducing Admixture

DESCRIPTION

SikaPlast®-2120 is a liquid admixture for concrete which is used as a mid-range water reducer/superplasticiser. It meets the requirement of BS EN 934 -2.

- Reduced segregation and bleeding
- Reduced drying shrinkage
- Reduced mix costs
- * Compared to concrete without admixture

USES

SikaPlast®-2120 is designed for use in both ready mix and precast applications whenever extended workability, high plasticity, and increased early/ultimate strengths are required. SikaPlast®-2120 is mainly used for the following applications:

- Concrete that require high water reduction up to 25 %.
- Applications that require high quality concrete.
- Applications that require improved consistence retention; Up to 2.5hours workability time possible.
- Concrete produced with very reactive cements.
- Precast application that require longer time during casting

FEATURES

SikaPlast®-2120 works based on a mechanism of both electrostatic dispersion and steric repulsion effects. Thus, solid particles can be effectively dispersed and a high level of fluidity can be reached with less water. As a result, SikaPlast®-2120 can provide moderate workability time and stability than conventional dispersants

- Keeps workability for extended time, Slump retention without additional retarder and subsequent fast strength development
- high impermeability effect
- Mid-range water reductions resulting in higher strengths and densities
- Less sensitive to variations in cement and aggregate types
- Improved cohesion properties
- Improved early and ultimate strengths
- Improved rheology
- Improved durability

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PRODUCT INFORMATION

Packaging	5Kg and 20Kg in Canisters/200Kg in Drum 1050Kg in IBC/Bulk deliveries
Shelf life	12 months minimum if stored properly in original unopened packaging.
Storage conditions	In a dry area between 5°C and 35°C. Protect from direct sunlight, frost and contamination.
Colour	Light/Dark Brown Liquid
Appearance and colour	Light/Dark Brown Liquid
Density	1.060 kg/l (at 20°C) ± 0.01
Solid content by mass	21.00 ± 1.0 %
pH-Value	5.5 ± 1
Concreting guidance	The standard rules of good concreting practice must be followed when using SikaPlast®-2120 in concrete. Refer to relevant standards.
Compatibility	SikaPlast®-2120 may be combined with many other Sika Products. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for Clarification and advice about any specific combinations. Please consult our Technical Services Department for information with regards to any special usage.
Recommended dosage	0.8 - 2.0 % by weight of cement (binder)
Dispensing	SikaPlast®- 2120 can be added to the mixing water prior to its addition to the dry mix or directly to the freshly mixed concrete (the plasticizing effect is more Pronounced). Never add SikaPlast®- 2120 directly to dry cement or aggregates(Efficiency reduction). SikaPlast®- 2120 can be used with other Sika admixtures provided that, preliminary testing is done to ascertain compatibility. Allow enough time for the concrete to mix thoroughly.

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.

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.

ECOLOGY, HEALTH AND SAFETY

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

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