

PRODUCT DATA SHEET

INSEE-1 Plus

MID-RANGE WATER REDUCING CONCRETE ADMIXTURE

DESCRIPTION

INSEE-1 Plus is a newly modified of midrange water reducing of admixture type for concrete. INSEE-1 Plus is designed for maximize utilization of low binder content and cost optimization with fly ash 20-35% replacement.

USES

- Strength improvement by total cost effectiveness for normal concrete.
- Extended workability in high ambient temperature.
- Cement saving is required for conventional concrete containing cement replacements such as Fly Ash or Slag.
- Compatible with hydraulic cement

PRODUCT INFORMATION

Packaging	200 l/drum 1,000 l/tote
Appearance / Colour	Brown Liquid
Shelf life	12 months from the date of production If stored properly in undamaged, original, sealed packaging.
Storage conditions	Store in dry conditions, protected from direct sunlight at temperature between 5°C and 40°C.
Density	1.080 - 1.100 kg/l (at temperature 25°C)
pH-Value	6.5 - 8.5 Approx.

CHARACTERISTICS / ADVANTAGES

INSEE-1 Plus provided the following properties :

- Water reduction up to 18% against control mix
- Equal strength to control mix with less cement
- Better improvement of early and final strength development
- Compensates for slow early strength gain achieved by cement replacements (PFA, GGBFS) Effectively work with cement replacement (PEA, GGBFS)
- Increased workability by its plasticized effect
- Good slump retention in high ambient temperature

APPROVALS / CERTIFICATES

Complies with ASTM C494 Type A & D

APPLICATION INFORMATION

Recommended dosage	300-800 cc. per 100 kg of cement or cementitious weight. Actual dosage depends on requirements and should be established from laboratory trials. INSEE-1 Plus is compatible with all types of Portland Cement, including S.R.C. type and Hydraulic Cement.
Dispensing	INSEE-1 Plus is introduced into the mixer together with mixing water. The addition of INSEE-1 Plus to dry aggregate and cement is not recommended, as it lowers plasticizing effects or the water reduction.

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.

IMPORTANT CONSIDERATIONS

Accidental overdosing of INSEE-1 Plus causes an extension of initial and final setting time.

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

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.

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