

PRODUCT DATA SHEET

SikaPlast®-1000 ES

WATER REDUCER AND ACCELERATOR ADMIXTURE

DESCRIPTION

SikaPlast®-1000 ES Water reducer cum accelerator for use in precast/ Paver industry for improvement of setting time and promoting accelerated hardening

USES

SikaPlast®-1000 ES is suitable for concreting of the following applications:

- Precast and Pre stressed concrete elements
- Block paving (grey/coloured)
- Cement tiles (grey/coloured)
- Paving flags
- Kerb stones
- Edging and other items for garden and landscape design
- Building blocks and bricks

CHARACTERISTICS / ADVANTAGES

SikaPlast®-1000 ES offers substantial benefits to the precast and semi dry precast concrete producers:

- Efficient dispersion and distribution of cement, additives and pigments
- Improved movement of the concrete through the machine
- Accelerated hardening and high early strength
- Early de moulding
- No adverse effect on ultimate strength
- Sufficient water reduction
- Improved surface finish
- Improved water tightness
- More economic concrete mix designs

APPROVALS / STANDARDS

IS 9103, ASTM C494

PRODUCT INFORMATION

Chemical Base	Modified Polycarboxylate
Packaging	20kg, 230kg
Appearance / Colour	Whitish Hazy liquid
Shelf Life	12 months from date of production if stored properly in undamaged un-opened, original sealed packaging.
Storage Conditions	Store in dry conditions at temperatures between +10°C and +40°C. Protect from direct sunlight and frost.
Density	1.02 kg/l at 25°C
pH-Value	≥ 6

APPLICATION INFORMATION

Recommended Dosage	0.5% to 3.0% by weight of cement .Exact dosage rates are dependent on the type of effect sought, quality and quantity of cement, sand grading, W/C and ambient temperature. Actual dosage to be finalised on the basis of site trials. Stir well before use.
Compatibility	SikaPlast®-1000 ES may be combined with many other Sika® products. Compatible with all types of cements and cementitious materials. Important: Always conduct trials before combining products in specific mixes and combinations. Compatible with all types of cement and cementitious material

APPLICATION INSTRUCTIONS

DISPENSING

SikaPlast®-1000 ES can be added into the mixing water or directly into the concrete mixer after 50 – 70% of the mixing water has been added.
The addition of SikaPlast®-1000 ES to dry aggregate or cement is not recommended.
To achieve optimum performance a minimum wet mixing time, which is depending on the mixing conditions and the mixer performance, of 60 seconds is recommended.

LIMITATIONS

Excessive water addition may cause bleeding or segregation.
If frozen and / or if precipitation has occurred, SikaPlast®-1000 ES may be used after thawing slowly at room temperature and after intensive mixing.

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.

LOCAL RESTRICTIONS

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.

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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