

PRODUCT DATA SHEET

SikaPlast[®]-2000 P-4 GN

3RD GENERATION LOW-MID RANGE SUPERPLASTICIZER

DESCRIPTION

SikaPlast -2000 P4 GN is a third generation low-mid range superplasticizer for concrete and mortar. It meets the requirements for superplasticizers according to ASTM C494 type G.

USES

SikaPlast-2000 P4 GN is suitable for the production of site mixed as well as ready-mix concrete. SikaPlast-2000 P4 GN is used for concrete with extended transportation or placing time. SikaPlast-2000 P4 GN facilitates good water reduction, excellent flow properties, optimal cohesion and highest self-compacting behaviour. SikaPlast-2000 P4 GN is used for the following types of concrete:

- Hot weather concrete and concrete with extended transportation - or placing time
- Concrete with highest water reduction (10-15% typical)
- High strength concrete.
- Grade 20-40mpa low medium-high workability concrete, 75 mm - 200 mm slump

High water reduction and excellent flow ability have a positive influence on the above mention applications

CHARACTERISTICS / ADVANTAGES

SikaPlast-2000 P4 GN acts by different mechanisms. Through surface absorption and sterical separation effect on the cement particles, in parallel to the hydration process, the following properties are obtained:

- High water reduction (resulting in high density and strengths).
- Excellent flowability (resulting highly reduced placing and compacting efforts).

PRODUCT INFORMATION

Chemical Base	Polycarboxylic polyether type polymer
Packaging	210 L drum & 1,000 L Bulk
Appearance / Colour	Brown liquid
Shelf Life	12 months from the date of production when unopened
Storage Conditions	Store properly in undamaged, unopened, original sealed packaging, in dry conditions at temperatures between +5°C and +30°C. Protect from direct sunlight.

Specific Gravity	Approximate 1.08 kg/L
Concreting Guidance	
Recommended Dosage	1.0% - 2.0% by weight of total cementitious binder
Dispensing	SikaPlast-2000 P4 GN is added to the gauging water or simultaneously when it poured into the concrete mixer. For optimum utilization of the high water reduction we recommend thorough mixing at a minimal wet mixing of 60 seconds. The addition of the remaining gauging water – to fine tune concrete consistency may only be started after 2/3 of the wet mixing time, to avoid surplus water in the concrete.
Restrictions	With the use of SikaPlast-2000 P4 GN concrete of highest quality is being produced. The standard rules of good concreting practice (production as well as placing) must also be observed with SikaPlast-2000 P4 GN concrete. Fresh concrete must be cured properly.

LIMITATIONS

When using SikaPlast-2000 P4 GN a suitable design has to be taken into account and local materials sources shall be trialled.

SikaPlast-2000 P4 GN shall not be added to dry cement.

Excessive water addition or overdosing may cause bleeding or segregation.

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

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.

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 Safety Data Sheet (SDS) 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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