BUILDING TRUST

PRODUCT DATA SHEET

SikaPlast®-102

MID RANGE WATER REDUCING CONCRETE ADMIXTURE

DESCRIPTION

SikaPlast®-102 is a mid-range water reducer specifically formulated to produce concrete with extended slump life.

USES

- SikaPlast®-102 is used to produce workable concrete with a lower total water content and should be considered wherever high quality concrete is required
- SikaPlast®-102 is ideal whenever the various handling properties of concrete must be improved and where placing conditions are difficult
- SikaPlast®-102 is used with all grades of concrete

CHARACTERISTICS / ADVANTAGES

Mix designs incorporating SikaPlast-102 can show economies through cement reduction, whilst still improving the plastic and hardened properties of the concrete. Batching water is reduced without loss of workability.
Typical performance advantages are:

- Increased strength and long term durability properties
- Reduced dimensions of long term shrinkage and creep
- Improved surface finish
- Placing in difficult situations is made easier
- Improved characteristics of concrete with difficult and harsh aggregate or sands

PRODUCT INFORMATION

Chemical Base	Aqueous solution
Packaging	200 litres and bulk
Appearance / Colour	Green liquid
Shelf Life	Twelve (12) months from date of manufacture if stored as stated.
Storage Conditions	Store in unopened, original containers, free from frost at temperatues between +5°C and +35°C.
Specific Gravity	~ 1.04 kg/litre
Total Chloride Ion Content	No added chlorides

TECHNICAL INFORMATION

Specific Advice	▪ AIR ENTRAINMENT: May have slight increase, tests are recommended ▪ WATER REDUCTION: Yes ▪ EFFECT ON SETTING TIME: Up to 600ml / 100kg setting time is within 1 hour of control ▪ FREEZING POINT: - 5°C ▪ SUITABILITY: All types of Portland cements, including sulphate resistant cement ▪ COMPATIBLE WITH OTHER SIKA ADMIXTURES: Yes, but add separately - do not premix. Trials recommended first.

APPLICATION INFORMATION

Recommended Dosage	400 - 800 ml. **Typical dosage:** 600 ml / 100 kg. *Trial mixes are recommended to establish exact dosage rates required to suit individual requirements. If assistance is required please contact the Sika Technical Department.*
Dispensing	▪ SikaPlast®-102 is generally added to the initial batching water, prior to the addition of aggregates ▪ For best results delay the dosage into the water until the cement and air entraining admixtures have been added and initially mixed with water ▪ SikaPlast®-102 may be added to the mixed concrete if required, however further mixing should take place for at least five minutes.

LIMITATIONS

- As with all concrete, it is essential to protect mixes containing SikaPlast®-102 from water evaporation during the crucial early age curing period. We recommend the use of Sika Antisol® curing membranes for this purpose. Refer to the Sika Antisol® product data sheet for further information.
- To avoid moisture evaporation from the concrete surface during the finishing period Sika recommends the use of SikaFilm (refer to SikaFilm product data sheet)
- When using SikaPlast®-102 in concrete containing air entraining admixtures, dosages of the latter may need to be adjusted to maintain the same target level of air entrainment
- For additional information, please contact your local Sika Representative.

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. It may be necessary to ad-

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