

## PRODUCT DATA SHEET

# SikaPlast<sup>®</sup>-102 Plus

### MID RANGE WATER REDUCING CONCRETE ADMIXTURE

#### DESCRIPTION

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

#### USES

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

#### CHARACTERISTICS / ADVANTAGES

Mix designs incorporating SikaPlast<sup>®</sup>-102 Plus 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:

- Extended slump retention without excessive retardation
- Reduced or eliminated need for concrete re-tempering
- 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 temperatures between +5°C and +35°C.
Total Chloride Ion Content	No added chlorides
Freezing point	- 5°C
Specific gravity	~ 1.04 kg/litre

#### TECHNICAL INFORMATION

Specific Advice	<ul style="list-style-type: none"> <li>▪ <b>Air Entrainment:</b> May have slight increase, tests are recommended.</li> <li>▪ <b>Water Reduction:</b> Yes</li> </ul>
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- **Suitability:** All types of Portland cements, including sulphate resistant cement

#### Effect on Setting

Up to 600ml / 100kg setting time is within 1 hour of control

## 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*

#### Compatibility

Compatible with other Sika admixtures, but add separately - do not pre-mix. Trials recommended first.

#### Dispensing

- SikaPlast®-102 Plus is added to the initial batching water or added with it into the concrete or truck mixer.
- SikaPlast®-102 Plus may also be added into the ready-mix truck on site. When added on site the truck mixer shall rotate its drum at maximum revolutions for at least 1 minute per m<sup>3</sup> of concrete and a minimum of 5 minutes to achieve a uniform mix. The concrete needs to be visually checked for uniform consistence before discharging.

#### Restrictions

SikaPlast®-102 Plus shall not be added to dry cement.

## 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.

## USES

- As with all concrete, it is essential to protect mixes containing SikaPlast®-102 Plus 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 Plus 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.

## 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 adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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#### Product Data Sheet

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