BUILDING TRUST

PRODUCT DATA SHEET

# SikaPlast®-518 PK

Water Reducing Super-Plasticizer And Retarder

## DESCRIPTION

SikaPlast®-518 PK is used as a highly effective water-reducing agent and superplasticizer for the production of high quality, free flowing concrete in hot climates. The dual action of SikaPlast®-518 PK imparts excellent slump retention for prolong periods, with high ultimate strengths.

## USES

SikaPlast®-518 PK is used wherever high-quality concrete is demanded under difficult placing and climatic conditions.

## CHARACTERISTICS / ADVANTAGES

SikaPlast®-518 PK provides the following properties:

As a Superplasticizer

- Substantial improvement in workability without increased water or the risk of segregation.
- Long-lasting control of slump.
- No adverse effect on ultimate strengths.

As a Water Reducer

- Early strengths significantly increased.
- High ultimate strengths.
- Up to 25% water reduction.
- Especially suitable for hot climates.
- No excessive air-entrainment.
- No adverse shrinkage effects.
- Improved surface finish.
- Increased water tightness.

## APPROVALS / STANDARDS

SikaPlast®-518 PK complies with ASTM C-494 Type A, B, D and EN 934-2 :2001

## PRODUCT INFORMATION

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| **Chemical Base** | Organic polymer blend |
| **Packaging** | 05 ltr jerry can<br>20 ltr plastic can<br>200 ltr drum<br>1000 ltr IBC<br>Bulk supply in tanker is possible on demand |
| **Appearance / Colour** | Brown Liquid |
| **Shelf Life** | 12 months minimum from production date if stored properly in original unopened packaging. |

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| **Storage Conditions** | The product must be stored properly in undamaged, unopened original sealed packaging in dry conditions at temperatures between +5° C and +35° C. Protect from direct sunlight and frost. |
| **pH-Value** | ≥ 4 |
| **Total Chloride Ion Content** | ≤ 0.1 (EN 934-2) |
| **Specific gravity** | 1.05 ± 0.02 |

## APPLICATION INFORMATION

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| **Recommended Dosage** | 0.6 - 2.0% by weight of cement. It is advisable to carry out trial mixes to establish the exact dosage rate required. |
| **Compatibility** | SikaPlast®-518 PK may be combined with following products:<br>▪ SikaPump®<br>▪ Sika® FerroGard®-901<br>▪ SikaFume®<br>It is also compatible with sulphate resistant cement. Pre-trials are recommended if combinations with the above products are being made. Please consult our Technical Services Department. |
| **Dispensing** | SikaPlast®-518 PK can be added separately to the freshly mixed concrete or directly to the mixing water prior to its addition to the aggregates. When added separately to the freshly mixed concrete, further mixing should take place for at least one minute per cubic meter. |

## 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.

## LIMITATIONS

When accidental overdosing occurs, the set retarding effect increases, however, no excessive amount of additional air will be entrained. During this period the concrete must be kept moist in order to prevent premature drying out.

## 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

### CLEANING OF TOOLS

Clean all equipment and tools with water immediately after use.

## 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. 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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