

## PRODUCT DATA SHEET

# SikaPlast<sup>®</sup>-40 VN

WATER REDUCING AND SET RETARDING CONCRETE ADMIXTURE.

### DESCRIPTION

SikaPlast<sup>®</sup>-40 VN is concrete plasticizer and retarder based on poly-carboxylate used to produce good quality concrete.

SikaPlast<sup>®</sup>-40 VN complies with ASTM C 494 Type G.

### USES

SikaPlast<sup>®</sup>-40 VN is used in structural and mass concrete needed long setting times and improved workability are required, such as projects with:

- Large pours, to prevent formation of cold joints.
- Long travel times from the concrete plant to the site.
- Difficult placing conditions and details.
- High ambient temperature.

### CHARACTERISTICS / ADVANTAGES

- Only set retarding, does not delay the hardening process.
- Allow substantial cement reduction compared to plain concrete.
- Increase in ultimate strength.
- Good control of slump loss even at elevated ambient temperature.
- Reduced shrinkage and creep.

### PRODUCT INFORMATION

|                     |  |
|---------------------|--|
| Chemical base       | Modified Poly carboxylate in water.  |
| Packaging           | 200/1000 litres.   |
| Shelf life          | 12 months if stored properly in original unopened packaging.   |
| Storage conditions  | Stored in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +30 °C. |
| Appearance / Colour | Liquid/brown colour.   |
| Density             | 1.055 – 1.075 kg/L (20°C).   |

### TECHNICAL INFORMATION

#### Concreting Guidance

**Concrete placing:** With the use of SikaPlast<sup>®</sup>-40 VN, concrete of highest quality is being produced, however state of the art concrete technology, such as mixing, placing, vibrating and curing must be respected and applied.

**Curing:** Effective measures for concrete curing must be followed.

## APPLICATION INFORMATION

|                           |  |
|---------------------------|--|
| <b>Recommended Dosage</b> | 0.4– 2.0 ltr per 100 kgs of cement/binder.<br>Typical 0.5 – 1.0 ltr per 100 kgs of cement/binder.  |
| <b>Compatibility</b>      | SikaPlast®-40 VN may be combined with all Sikament®, Sika® ViscoCrete®, Sika® Aer, Sika®Pump, Sikacrete® PP1 products, but must be added separately to the mix and not pre-mixed prior its addition.<br>SikaPlast®-40 VN is compatible with all Portland Cement types. |

## 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.

## IMPORTANT CONSIDERATION

Overdosing will result in increased workability and setting time of the Concrete, however, provided that curing is effective, ultimate concrete strength and properties will not be affected.

Accurate dispensing equipment can be supplied by Sika Limited (Vietnam).

Use an appropriate concrete mixer and do not mix by hand.

Trial mixes are recommended to establish exact dosage rates required to suit individual requirements. Please contact Sika Technical Department for further assistance.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### DISPENSING

SikaPlast®-40 VN is added to the gauging water prior to its addition to the dry mix or added separately to the wetted concrete mix.

For optimum utilization of the ultra-high range water reducer we recommend a minimum wet mixing time of 60 seconds.

When adding the balance of the batching water to adjust concrete consistency this should be done after a minimum of 2/3 of the wet mixing time to avoid surplus water in the concrete.

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#### Product Data Sheet

SikaPlast®-40 VN

February 2023, Version 01.01

021301011000004775

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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