

# PRODUCT DATA SHEET

## Sika® Plastiment® VZ

### WATER REDUCING AND SET RETARDING

#### DESCRIPTION

A liquid concrete plasticizer and water reducing agent with set retarding effect.

#### USES

Sika® Plastiment® VZ is used as a general purpose admixture where the placing conditions for high quality concrete are more demanding such as :

- Elevated temperatures.
- Fair faced concrete.
- Pumped concrete.
- Ready mix concrete.
- Areas where large volumes must be placed at one time.
- High mechanical strengths are required.

#### CHARACTERISTICS / ADVANTAGES

Sika® Plastiment® VZ provides the following properties:

- Increased setting time in hot weather. Accelerated hardening after setting.
- Improved workability without increase water content.
- Reduced water without loss of workability.
- Increased strengths.
- Reduced shrinkage and creep.
- Long lasting control of slump loss.
- Better surface finish.
- Chloride free – does not attack reinforcement.

#### PRODUCT INFORMATION

<b>Chemical Base</b>	Polyhydroxy Carbon Salts
<b>Packaging</b>	240 kg drum Bulk delivery
<b>Appearance / Colour</b>	Liquid / Yellowish Transparent
<b>Shelf Life</b>	Minimum 1 year if stored in original unopened container
<b>Storage Conditions</b>	Store in dry, cool, shaded place
<b>Density</b>	1.18 ± 0.01 kg/ L
<b>Total Chloride Ion Content</b>	< 0.1 % w/w

## APPLICATION INFORMATION

### Recommended Dosage

0.15 % - 0.40 % by weight of cement

The effective dosage of Sika® Plastiment® VZ depends on the type of cement and fine aggregate, in general dosage of Sika® Plastiment® VZ is in the range of 0.15 % - 0.25 % for concrete having low absorption fine aggregate.

The dosage rate can be increased to 0.60 % to overcome difficulties in quality of cement and aggregates, high temperature and difficult placing conditions.

Concrete trial mix shall be carried out to confirm the effective dosage and its effect to concrete properties

### Compatibility

Sika® Plastiment® VZ is compatible with all types of Portland cement including S.R.C.

## APPLICATION INSTRUCTIONS

### DISPENSING

Sika® Plastiment® VZ should be dispensed directly into the mixing water prior to its addition to the aggregates.

When accidental overdosing occurs, Sika® Plastiment® VZ does not entrain excessive amounts of air, however the set retarding effect increases. During this period the concrete must be kept moist in order to prevent premature drying out.

### 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.

**Sika (Singapore) Pte Ltd**  
66A Sungei Kadut Street 1  
Singapore 729368  
Phone: +65 6368 0883  
Fax: +65 6368 6636  
Email: sikasing@sg.sika.com  
www.sika.com.sg



SikaPlastimentVZ-en-SG-(01-2019)-1-1.pdf

Product Data Sheet  
Sika® Plastiment® VZ  
January 2019, Version 01.01  
021303011000000045

**BUILDING TRUST**

