

# PRODUCT DATA SHEET

## Plastiment® V 105

### MID-RANGE WATER-REDUCING ADMIXTURE

#### DESCRIPTION

Plastiment® V 105 is a highly effective liquid Mid Range Water Reducing admixture for the production of medium to high workability concrete. Plastiment® V 105 is chloride free admixture and is compatible with all types of Portland Cement including Sulphate Resistant Cement (SRC).

#### USES

Plastiment® V 105 is suitable for the production of site mixed as well as ready mixed concrete

- Used for concrete with extended transport or placing times
- Used for concrete in hot climates where long slump retention is required

- Used for concrete using high absorbent sand
- Used for concrete using high percentage of quarry dust

#### CHARACTERISTICS / ADVANTAGES

As a Mid Range Water Reducer

- Workability and slump retention is greatly improved
- Increased placeability in slender components with packed reinforcements
- Suitable for use in conjunction with standard super plasticizers (synergized mixes)
- Significantly reduces the risk of segregation
- Water reduction 4 % -12 % depending on dosage\*

\*(this will depend on dosage and mix design)

#### PRODUCT INFORMATION

<b>Chemical base</b>	Modified Polysaccharide
<b>Packaging</b>	200 L drums 1000 L tanks & bulk delivery
<b>Appearance / Colour</b>	Dark brown
<b>Shelf life</b>	12 months from the date of production if stored in undamaged and unopened, original sealed containers
<b>Storage conditions</b>	Protected from direct sunlight and frost, at temperatures between +5 °C and +30 °C.
<b>Density</b>	1.17 ± 0.20 kg/ L (at +25 °C)
<b>Total Chloride Ion Content</b>	< 0.1 % w/w

## TECHNICAL INFORMATION

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### Concreting Guidance

The standard rules of good concreting practice, concerning production and placing, are to be followed.

Laboratory trials before concreting on site are strongly recommended when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and as early as possible.

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### Specific Advice

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

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## APPLICATION INFORMATION

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### Recommended Dosage

Plastiment® V 105 can be used at the dose rate 0.20 % -1.00 % per total weight of cementitious material depending on requirements concerning workability and strength. It is recommended that trial mixes be conducted to determine the exact dosage rate required.

#### Note:

Typical dose rate is 0.30 % -0.50 % by weight of cementitious material for normal absorbent sand e.g. silica sand.

For use in high absorbent sand e.g. volcanic sand or in the case of use of more than 30 % of quarry dust (manufactured sand) the typical dose rate is in the range of 0.45 – 0.90 %

For more specific requirements, advice is available from our Technical Service Department to determine the usage rate for optimum results.

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## APPLICATION INSTRUCTIONS

### DISPENSING

Plastiment® V 105 shall be dispensed with the mixing water into the truck mixer.

Do not dilute Plastiment® V 105

### LIMITATIONS

When accidental overdosing occurs, Plastiment® V 105 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 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 declared data and recommended uses for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data and uses.

## 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.

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PlastimentV105\_en\_ID\_(08-2017)\_1\_1.pdf

### Product Data Sheet

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August 2017, Version 01.01

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