

# PRODUCT DATA SHEET

## Sika® Plastiment®-20 R

### SET RETARDING CONCRETE ADMIXTURE



#### DESCRIPTION

Sika® Plastiment®-20 R is a set retarder, plasticizer and water reducer for concrete in liquid form.

#### USES

Sika® Plastiment®-20 R is used in cases of:

- Concreting at high temperatures
- Long distance concrete transportations
- Applications with demand for prolonged workability
- Site batched and Ready Mix concrete

#### CHARACTERISTICS / ADVANTAGES

- Increased setting time in cases of hot weather
- Workability maintenance, even under high temperatures
- Higher final concrete strengths
- Reduced shrinkage
- Improved surface aspect
- Very economic
- Sika® Plastiment®-20 R does not contain chlorides and is therefore suitable for reinforced and prestressed concrete

#### APPROVALS / CERTIFICATES

CE-marking and Declaration of Performance as Set retarding / water reducing / plasticizing admixture (Table 10) according to EN 934-2:2009, based on certificate of factory production control issued by notified factory production control certification body and type testing.

#### PRODUCT INFORMATION

<b>Composition</b>	Modified poly - saccharides
<b>Packaging</b>	IBC, 230 kg drums, 20 kg containers Bulk supply on demand
<b>Appearance / Colour</b>	Liquid, brown
<b>Shelf life</b>	12 months from date of production
<b>Storage conditions</b>	Store in undamaged, unopened, original sealed packaging, in dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.
<b>Density</b>	~ 1,16 kg/l (at +20 °C)
<b>pH-Value</b>	8,0 – 11,0 (at +20 °C)
<b>Total Chloride Ion Content</b>	Free (EN 934.01)

## TECHNICAL INFORMATION

### Concreting Guidance

The standard rules of good concreting practice, concerning production as well as placing, are to be followed. Refer to relevant standards. Fresh concrete must be cured properly.

## APPLICATION INFORMATION

### Recommended Dosage

0,1 – 0,3 % by weight of cement. Higher dosages and up to 0,5% b.w. of cement are also permissible, in cases of increasing demands, such as extremely high prevailing temperatures, change of casting schedule, long transportation times, e.t.c.

In all cases, preliminary tests must be conducted, in order to evaluate and verify the effect of such dosages in setting time (retardation) and stripping schedule.

### Compatibility

Sika® Plastiment®-20 R can be combined with the following Sika products:

- Sika® Plastiment® series
- Sika® ViscoCrete® series
- Sika® ViscoFlow® series
- Sika® Plastocrete®-100 N/ Sika® WT-140 L/ Sika® WT-200 P
- Sika® Ferrogard®-901 S
- Sika® Visco I-100
- Sikafume® HR-E / Sikacrete® AR
- Sika-Aer® Fine

Trials are recommended before combining products.

### Dispensing

Sika® Plastiment®-20 R is added to the gauging water at the plant.

### Restrictions

- When using Sika® Plastiment®-20 R a suitable mix design has been taken into account and local material sources should be trialled.
- If frozen, Sika® Plastiment®-20 R may be used after thawing slowly at +30°C and intensive mixing.
- Sika® Plastiment®-20 R should not be added to dry cement.
- Sika® Plastiment®-20 R should be added with the mixing water.
- Before application, suitability tests must be performed.

## 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.

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