

# PRODUCT DATA SHEET

## Sika® Plastiment®-28 RCC

### WATER REDUCING AND SET RETARDING CONCRETE ADMIXTURE

#### DESCRIPTION

Sika® Plastiment®-28 RCC is a water reducing and re-tarding concrete admixture, specially designed for roller compacted concrete (RCC). Sika® Plastiment®-28 RCC meets the requirements of ASTM C 494 type B & D.

#### USES

Sika® Plastiment®-28 RCC is used in structural and mass concrete where long setting times and improved workability are required, such as projects with:

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

#### CHARACTERISTICS / ADVANTAGES

##### In fresh state

- Initial setting is delayed allowing time for proper placement and compacting new layer over the re-tarded RCC, without cold joint
- Decrease the mortar of concrete bonding volume
- Increase the time available to re compacting the concrete without damaging the material. After the initial set heavy transits can damage the newly hydrated RCC.
- Increase of the cement efficiency
- Diminish the rate of initial heat generation

##### In hardened state

- Increase the mechanical strengths in any weather conditions
- Diminish the heat generation and the cracking risk
- Increase the density of the RCC

#### PRODUCT INFORMATION

<b>Chemical base</b>	Blend of organic substances
<b>Packaging</b>	200 / 1000 L
<b>Appearance / Colour</b>	Liquid / brownish
<b>Shelf life</b>	12 months if stored properly in original unopened packaging.
<b>Storage conditions</b>	Stored in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +30 °C.
<b>Density</b>	1.220 – 1.240 kg/l (20 °C)
<b>pH-Value</b>	6.00 – 8.00 (25 °C)

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## TECHNICAL INFORMATION

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### Concreting Guidance

**Concrete placing:** With the use of Sika® Plastiment®-28 RCC, 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.

### Specific Advice

Sika® Plastiment®-28 RCC 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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## APPLICATION INFORMATION

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### Recommended Dosage

0.2 – 2.0 L per 100 kg of cement/binder  
Typical 0.4 – 2.0 L per 100kg of cement/binder

### Compatibility

Sika® Plastiment®-28 RCC may be combined with all Sikament, Sika® Aer, Sika®Pump, Sikacrete® PP1 products, but must be added separately to the mix and not pre-mixed prior its addition.

Sika® Plastiment®-28 RCC is compatible with all Portland Cement types.

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## 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.

## 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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## ECOLOGY, HEALTH AND SAFETY

**Protective Measures:** Avoid prolonged contact with skin. Wash off thoroughly with soap water.

In case of contact with eyes or mouth, rinse immediately with clean warm water and seek medical attention without delay.

Avoid contact with food stuff and utensils

**Ecology/ Waste disposal:** Do not dispose of into water or soil, but according to local regulations

**Transportation class:** Non-hazardous

**Toxicity:** Non-toxic

## 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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