

BUILDING PRODUCT INFORMATION SHEET

Sika® Plastiment® R (NZ)

Water reducing and retarding concrete admixture

DESCRIPTION

A liquid set retarding concrete admixture with a plasticizing effect. Substantial water reduction can be achieved without loss of workability.

USES

Sika® Plastiment® R (NZ) is used where high quality concrete is required in difficult conditions, such as:

- High temperatures
- Long hauls
- Ready mix concrete
- Pre-stressed concrete
- Wherever high quality dense concrete is required

FEATURES

- Increased setting times at elevated temperatures
- Long lasting control of slump loss
- Improved workability without increased water content
- Reduced water without loss of workability
- Increased strengths
- Reduced shrinkage and creep
- Improved surface finish
- Chloride free – does not attack reinforcement

APPROVALS / CERTIFICATES

Complies with ASTM C-494 Type B & D.

PRODUCT INFORMATION

Product identifier	Sika® Plastiment® R (NZ)
Place of manufacture	Aotearoa New Zealand
Composition	Special Organic Agents
Packaging	200 litres
Shelf life	Minimum of six (6) months from date of manufacture when stored as stated.
Storage conditions	Store in unopened original containers at temperatures between +5°C and +35°C.
Appearance and colour	Brown liquid
Specific gravity	~ 1.10 kg/litre
Total chloride ion content	Nil

TECHNICAL INFORMATION

Specific advice	Air entrainment: Approximately 1%
	Water reduction: yes
	Freezing point: -5°C

APPLICATION INFORMATION

Recommended dosage	Dosage (typical): 200 – 500 mls per 100 kg/cement Trial mixes are recommended to establish exact dosage rates required to suit individual requirements. If assistance is required please contact the Sika Technical Department.
Compatibility	<ul style="list-style-type: none">▪ Compatibility with other Sika admixtures: Yes – but add separately, do not pre-mix.▪ Sika® Plastiment® R (NZ) can be used with all types of Portland cement including Sulphate resistant cements
	<ul style="list-style-type: none">▪ Sika® Plastiment® R (NZ) is generally added to the initial batching water, prior to the addition of aggregates.▪ For best results delay the dosage into the water until the cement and air entraining admixture have been added and initially mixed with water.

MANUFACTURER AND IMPORTER INFORMATION

Manufacturer information	Address	Sika (NZ) Limited 85-91 Patiki Road Avondale, Auckland 1026 New Zealand
	Phone number	0800 745 269
	Website	https://nzl.sika.com/
	Email address	info@nz.sika.com
	NZBN	9429000018791

BUILDING CODE INFORMATION

Building Code clauses	<p>Note: This product on its own is not within the scope of the NZ Building Code. It is an additive / admixture for use in the manufacture of concrete, to enhance its performance properties in either its plastic or hardened state. When added to concrete that must comply with the NZ Building Code, and it used in accordance with Sika's technical literature, it will contribute to meeting the requirements of the following clauses:</p> <p>B1 Structure: Performance Clauses B1.3.1, B1.3.2, B1.3.3 (a, b, f, h, m, q) B1.3.4</p> <p>B2 Durability: Performance clause B2.3.1-(a) not less than 50 years</p> <p>F2 Hazardous Building Materials: Performance clause F2.3.1</p>
Building Code compliance statements	<p>Performance B1.3.1, B1.3.2, B1.3.3 (a, b, f, h, m, q), B1.3.4: This product meets the requirements of AS1478.1 Chemical Admixtures for Concrete, Mortar and Grout. When added to concrete during the production phase it contributes to the hardened concrete meeting loading requirements arising from self-weight, imposed gravity loads, earthquake, wind impact, and the effects of creep and shrinkage over time.</p> <p>Performance B2.3.1 (a) 50 years: This product meets the requirements of AS1478.1 Chemical Admixtures for Concrete, Mortar and Grout. When added to concrete, mortar or grout during the manufacturing process it helps the hardened concrete to achieve its durability requirements and to remain serviceable for 50 years, or more. According to Sika's "Service Improvement" records, maintained within its ISO9001:2015 Quality Management System, this product has performed successfully since it was introduced in 1999.</p> <p>Performance F2.3.1: This product meets this requirement when used and applied in accordance with Sika's installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Sika Product Technical Data sheet and product Safety Data Sheet nzl.sika.com for further information if required</p>

BASIS OF PRODUCT DATA

All technical data in this document are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- If accidental overdosing of Sika® Plastiment® R (NZ) occurs the setting times will be retarded.
- During this period the concrete must be kept moist to prevent premature drying out.
- Very high overdoses may prevent concrete from setting.
- As with all concrete and mortars, it is essential to protect mixes containing Sika® Plastiment® R (NZ) from water evaporation during the crucial early age curing period. We recommend the use of Sika® Antisol curing membranes for this purpose. Refer to the Sika® Antisol data sheet for further information.
- To avoid moisture evaporation from the concrete surface during the finishing period Sika recommend the use of SikaFilm (refer to the SikaFilm data sheet).
- When using Sika® Plastiment® R (NZ) in concrete containing air entraining admixture, dosages of the latter may need to be reduced to maintain the same target level of air entrainment.

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.

APPLICATION INSTRUCTIONS

DESIGN REQUIREMENTS

Design requirements for concrete that contains Sika admixtures, or other concrete additives are the responsibility of the ready mixed concrete producer and/or the concrete design engineer.

MAINTENANCE REQUIREMENTS

Once added the Sika admixture / additive becomes an integral part of the hardened concrete, mortar or grout. Refer to the supplier of that product for their maintenance instructions.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

The building product/building product line is not subject to warning or ban under section 26 of the Building Act 2004.

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NZ BUILDING PRODUCT INFORMATION SHEET

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