BUILDING TRUST

BUILDING PRODUCT INFORMATION SHEET

Sika Retarder® N

Set Retarder

DESCRIPTION

Sika Retarder® N is used to retard the setting time of the concrete to allow concreting under conditions of high ambient temperatures and placing of mass concrete. It is designed to be used for pumped, prestressed and structural concrete.

USES

- Increases the setting time of concrete
- Used in high temperatures
- Excellent for large concrete pours

FEATURES

- Minimises the risk of cold joints.
- After the initial retardation, the rate of hardening proceeds at a rate equivalent to, or greater than, unretarded normal concrete.
- Delivery of concrete can be made over long distances from the premix concrete plant.

APPROVALS / CERTIFICATES

Sika Retarder® N meets and exceeds all requirements of Australian Standard 1478.1-2000 for Set-Retarding Admixture (Re)

PRODUCT INFORMATION

Product identifier	Sika Retarder® N
Place of manufacture	Aotearoa New Zealand
Composition	Aqueous solution of selected carbohydrates
Packaging	Bulk deliveries 1000 litre IBC 200 litre drum 20 litre container
Shelf life	Twelve (12) months when stored in original unopened containers, protected from direct sunlight and frost at temperatures between 5°C and 35°C.
Storage conditions	Store at temperatures between +5°C and +35°C, protected from direct sunlight.
Appearance and colour	Yellow liquid
Specific gravity	1.05 gr/cm^3 approx.

APPLICATION INFORMATION

Recommended dosage	The effect of Sika Retarder® N depends on a number of factors such as cement type, ambient temperature and mix design. The optimum dosage should be determined by site or laboratory tests with the particular concrete mix design. The rate of addition is generally in the range of: 200ml ± 100ml per 100kg of cementitious materials. Note: For dose rates higher than 400 ml/100kg please refer to your Sika representative.

Sika Retarder® N should be added during the concrete mixing process at the same time as the mixing water.

TECHNICAL INFORMATION

Concreting guidance	Concrete should be placed according to good concrete practice and proper curing procedures should take place
Specific advice	May slightly increase air content when used with water reducers.

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	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: B1 Structure: Performance Clauses B1.3.1, B1.3.2, B1.3.3 (a, b, f, h, m, q) B1.3.4 B2 Durability: Performance clause B2.3.1-(a) not less than 50 years F2 Hazardous Building Materials: Performance clause F2.3.1
Building Code compliance statements	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. 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 2020. 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

SYSTEM INFORMATION

Compatibility	Sika Retarder® N is compatible with all the types of Portland cement . When using with other admixtures, check their compatibility first.

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

Increase in dosage rate will cause an increase in the setting time. If this occurs, do not change to an accelerator. A severe overdose may delay the setting time of the concrete to a detrimental extent.

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.

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

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