BUILDING TRUST

BUILDING PRODUCT INFORMATION SHEET

SikaRapid®-8 Slag

Hardening accelerator

DESCRIPTION

SikaRapid®-8 Slag is a chloride-free hardening accelerator specially developed to promote the early age strength of concrete manufactured using slag without negatively influencing final strengths.

USES

SikaRapid®-8 Slag is especially suitable for any application where fast early strength development plays a major role or is of crucial importance.

SikaRapid®-8 Slag is used for the following applications:

- Precast concrete
- Ready-mixed concrete where early demoulding is essential
- Ready-mixed concrete where minimum time delays are critical.

FEATURES

SikaRapid®-8 Slag provides the following advantages through accelerated hardening of the concrete:

- Faster turnaround of formwork in precast applications
- Reduced or eliminated steam curing
- Fast construction processes and early load bearing capacity
- No negative effects on final strengths

When used with a superplasticizer, SikaRapid®-8 Slag will not change the fresh concrete properties produced by the superplasticizer.

PRODUCT INFORMATION

Product identifier	SikaRapid®-8 Slag
Place of manufacture	Aotearoa New Zealand
Packaging	Bulk
Shelf life	Thirty-six (36) months from date of production when stored as stated.
Storage conditions	Store at temperatures between +5°C and +30°C. Protect from direct sunlight and frost.
Colour	Reddish liquid
Density	1.13 ± 0.03
pH-Value	~9
Total chloride ion content	≤ 0.1 %

APPLICATION INFORMATION

Recommended dosage	0.5% to 5% of the weight of binder or cement depending on the performance sought.
Compatibility	SikaRapid®-8 Slag is compatible with Sika® ViscoCrete and Sika Plastotcrete®/Plastiment® admixtures.

When used with a plasticizer or a superplasticizer, an increase in the fluidity of the concrete can be observed. It is then necessary to reduce the dosage of the plasticizer / superplasticizer and / or reduce the dosage of water. In all cases, a preliminary test is recommended.

DISPENSING

SikaRapid®-8 Slag is added to the gauging water, or added with it, into the concrete mixer.

SikaRapid®-8 Slag may also be added into the ready-mix truck on site. When added on site the truck mixer shall rotate its drum at maximum revolutions for at least 1 minute per m^3 of concrete and a minimum of 5 minutes to achieve a uniform mix. The concrete should be visually checked for uniform consistency before discharging.

TECHNICAL INFORMATION

Concreting guidance

REMINDER: Concreting in cold weather

The role of an accelerator is only to activate the cement hydration process.

This process is only possible if the initial temperature of the concrete is greater than or equal to + 5°C. In this case, the accelerator activates the exothermic setting reactions and generates an internal temperature sufficient to ensure the hardening of the concrete, even if the outside temperature drops below 0°C.

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 2023.

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

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.

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

SikaRapid®-8 Slag shall not be added to the dry cement/slag blend.

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.

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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