

# BUILDING PRODUCT INFORMATION SHEET

## Sika® Lightcrete (NZ)

### Flowable fill admixture

#### DESCRIPTION

Sika® Lightcrete (NZ) is a ready-to-use liquid admixture to produce Controlled Low Strength Material (CLSM), also referred to as flowable fill, controlled density fill (CDF), lean mix backfill, unshrinkable fill or flowable mortar. Sika® Lightcrete (NZ) is compatible with all conventional CLSM materials.

#### USES

Sika® Lightcrete (NZ) is recommended for use whenever the material for structural fill or backfill is requested. Sika® Lightcrete (NZ) is ideal for use in tight or restricted areas where placing and compacting soil or granular fill is difficult or even impossible. Typical CLSM applications are filling voids under existing pavements, buildings or other structures, backfilling narrow trenches, and filling abandoned underground structures such as culverts, pipes, tunnels, storage tanks, wells, sewers, etc.

#### FEATURES

- Produces a fluid material with minimal shrinkage or segregation.
- Eliminates the need for compaction of layered backfill.
- Produces very stable air contents.
- Significantly faster and less labor intensive than compacted soil fill.
- Sika® Lightcrete (NZ) is compatible with all conventional CLSM materials.
- Sika® Lightcrete (NZ) contains no calcium chloride or other corrosive agents.
- Easy to use

#### PRODUCT INFORMATION

<b>Product identifier</b>	Sika® Lightcrete (NZ)
<b>Place of manufacture</b>	Aotearoa New Zealand
<b>Packaging</b>	20 litre pails
<b>Shelf life</b>	Twelve (12) months when stored as stated.
<b>Storage conditions</b>	Sika® Lightcrete (NZ) should be stored at above +5°C. If frozen, thaw and agitate thoroughly to return to normal state before use. Store in original packaging in dry warehouse conditions between +5°C to +35°C.
<b>Appearance and colour</b>	Light yellow liquid
<b>Density</b>	~ 1.01 kg/litre

#### APPLICATION INFORMATION

<b>Recommended dosage</b>	Dosage rates will vary according to the mix design, materials used, ambient conditions and requirements of a specific project. Sika recommends a dosage rate of 0.5 l/m <sup>3</sup> of controlled low strength material (CLSM) concrete. The dosage rate can be reduced or increased based on the mix design to meet specific project requirements. In this case, please contact Sika for more information and assistance.
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# MANUFACTURER AND IMPORTER INFORMATION

<b>Manufacturer information</b>	Address	Sika (NZ) Limited 85-91 Patiki Road Avondale, Auckland 1026 New Zealand
	Phone number	0800 745 269
	Website	<a href="https://nzl.sika.com/">https://nzl.sika.com/</a>
	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 2001.

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](http://nzl.sika.com) for further information if required

## 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.

## 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.

## DISPENSING

Sika® Lightcrete (NZ) can be added at the batching plant during the mixing process, but should not be added to dry cementitious materials. It can also be added to the mixed concrete in the ready mix truck at the concrete plant or at the job site. In all cases adding Sika® Lightcrete (NZ) will increase the concrete volume by 20-35%, and the increase in concrete volume needs to be allowed for. After adding Sika® Lightcrete (NZ), the concrete should be mixed at agitation speed for at least 75 revolutions or 5 minutes to ensure proper mixing.

## 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.

### NZ BUILDING PRODUCT INFORMATION SHEET

Sika® Lightcrete (NZ)  
12/12/2024 File version 1.0  
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## 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.

### **Sika (NZ) Limited**

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