

PRODUCT DATA 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.

CHARACTERISTICS / ADVANTAGES

- 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

Packaging	20 litre pails
Appearance / Colour	Light yellow liquid
Shelf Life	Twelve (12) months when stored as stated.
Storage Conditions	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.
Density	~ 1.01 kg/litre

APPLICATION INFORMATION

Recommended Dosage

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/m³ 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.

APPLICATION INSTRUCTIONS

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.

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 performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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.

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.

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