



PRODUCT DATA SHEET

Sika® Lightcrete Liquid

Flowable Fill Admixture

PRODUCT DESCRIPTION

Sika® Lightcrete Liquid 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 Liquid is compatible with all conventional CLSM materials.

WHERE TO USE

Sika® Lightcrete Liquid is recommended for use whenever the material for structural fill or backfill is requested. Sika® Lightcrete Liquid 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 Liquid is compatible with all conventional CLSM materials.
- Sika® Lightcrete Liquid contains no calcium chloride or other corrosive agents.
- Easy to use.

PRODUCT INFORMATION

Packaging	Sika® Lightcrete Liquid is available in 205 Litre drums and 1040 Litre totes.
Shelf Life	Shelf life when stored in original packaging in dry warehouse conditions between 10–27 °C (50 °F and 80 °F) is 12 months.
Storage Conditions	Sika® Lightcrete Liquid should be stored at above 5 °C (40 °F). If frozen, thaw and agitate thoroughly to return to normal state before use.
Appearance / Colour	Light Yellow Liquid
Specific Gravity	Approx. 1.01

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 (13 fl. oz per cubic yard) 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 your local regional Sika representative for more information and assistance.

Mixing

Sika® Lightcrete Liquid can be added in the ready mix truck at the concrete plant or at the job site. Adding Sika® Lightcrete Liquid will increase the concrete volume by 20–35 %. Sika® Lightcrete Liquid can be transferred from drum or tote packaging into 1 gallon containers to be added conveniently at the job site.

If Sika® Lightcrete Liquid is added at the concrete plant, it can be added to the concrete during any time of the mixing process; the increase in concrete volume after adding Sika® Lightcrete Liquid should be considered during batching. Sika® Lightcrete Liquid should not be added to dry cementitious materials. After adding Sika® Lightcrete Liquid the concrete should be mixed at agitation speed for at least 75 revolutions or 5 minutes to ensure proper mixing.

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains 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 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 recommendations, or from any other advice offered.

The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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Sika® Lightcrete Liquid
February 2024, Version 01.01
02140403100000016

SikaLightcreteLiquid-en-CA-(02-2024)-1-1.pdf

