

# SikaLightcrete<sup>®</sup> 02

## Admixture for Lightweight Concrete

Construction

<b>Description</b>	SikaLightcrete <sup>®</sup> 02 is a liquid admixture for concrete and mortar, which produces lightweight concrete.
<b>Uses</b>	<p>SikaLightcrete<sup>®</sup> 02 can be used to produce foam concrete and lightweight concrete. It can be used for:</p> <ul style="list-style-type: none"> <li>• Filling trenches and pipes (backfill).</li> <li>• Insulation (thermal and acoustic).</li> <li>• Lightweight concrete applications of every kind.</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>• Introduces airpores up to 35%.</li> <li>• Combined with lightweight aggregates, dry density of 800 to 1600 kg/m<sup>3</sup> can be achieved.</li> <li>• The air content is stable, even after the concrete is placed.</li> <li>• The lightweight concrete can be pumped.</li> <li>• Easy production of concrete and mortar at the ready mix plants using standard dosing equipment.</li> <li>• Does not contain chlorides or other materials that promote steel reinforcement corrosion.</li> </ul>
<b>Storage and Shelf Life</b>	Stored at temperatures between 5°C and 35°C in unopened original containers protected from direct sunlight and frost, shelf life is at least one (1) year.
<b>Instructions for Use</b>	
<b>Dosage</b>	Recommended dosage is 400mls – 2000mls/100 kg cementitious. Exact dosage rate should be determined by trials.
<b>Mixing</b>	SikaLightcrete <sup>®</sup> 02 is added to the gauging water or added to the concrete mix at the same time as the gauging water. The mixing time required to achieve a specific density of fresh concrete depends on the type of mixer used, and the aggregates and binder in the mix. Thus, trials are recommended to achieve the desired airpore content and concrete mix. Sika Lightcrete <sup>®</sup> 02 can also be added into the ready-mix truck on site. An additional mixing time of at least two (2) minutes per m <sup>3</sup> of concrete must be observed. Before the concrete is discharged, the concrete must be tested for plastic density.
<b>Application Method</b>	Concrete mixed with SikaLightcrete <sup>®</sup> 02 is transported to site in ready-mix trucks. Concrete should be placed according to good concrete practices and proper curing procedures should take place.

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**Technical Data (Typical)**


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<b>Form</b>	Liquid surfactants
<b>Colour</b>	Yellow
<b>Density (20°C)</b>	1.02 kg/litre approx.
<b>pH-value (20°C)</b>	10.0 ± 1.0
<b>Chloride Content</b>	No added chlorides
<b>TEA Content</b>	Does not contain triethanolamine
<b>Air Entrainment</b>	Up to 35% depending on dose rates
<b>Packaging</b>	20 litre pail 205 litre drum Bulk deliveries

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**Important Notes**

- SikaLightcrete® 02 can be used in conjunction with SikaPump®, Sika Plastiment®, Sikament® Sika® ViscoCrete® and Sika Retarder®.
- To adjust the required fresh concrete density and to determine the correct mixing procedures and times, concrete trials are recommended.
- Frozen SikaLightcrete® 02 can be used without loss of performance if thawed slowly at room temperature and thoroughly stirred.

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**Handling Precautions**

- Avoid contact with skin and eyes.
- Wear protective gloves and eye protection during work.
- If skin contact occurs, wash skin thoroughly.
- If in eyes, hold eyes open, flood with warm water and seek medical attention without delay.
- A full Material Safety Data Sheet is available from Sika on request.

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**Important Notification**

The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Australian version of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.

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