

# PRODUCT DATA SHEET

## Sika® Lightcrete Powder

### POWDERED FOAMING ADMIXTURE

#### PRODUCT DESCRIPTION

Sika® Lightcrete Powder is a powdered foaming admixture formulated to provide low density concrete and mortar.

#### USES

Sika® Lightcrete Powder is especially suitable for any application where stable low density concrete and mortar is required.

Sika® Lightcrete Powder is mainly used for the following applications:

- Production of low density concrete and mortar
- Void fill
- Lightweight construction
- Filling utility trenches and pipes (backfill)
- Variable use in different concrete systems with different raw materials

#### CHARACTERISTICS / ADVANTAGES

Sika® Lightcrete Powder is especially suitable for application on site.

- Strong foaming properties allow for the production air content up to 35%
- Less segregation and bleed
- Provides improved flowability and pumpability
- Package in water soluble bags for easy dispensing

#### APPROVALS / STANDARDS

Conforms to the requirements of BS 8443

#### PRODUCT INFORMATION

<b>Chemical Base</b>	Anionic Surfactant
<b>Packaging</b>	0.45Kg water soluble bag (24bags = 1box)
<b>Appearance / Colour</b>	Pale buff powder
<b>Shelf Life</b>	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
<b>Storage Conditions</b>	Store in dry conditions at temperatures between +5°C and +25°C. Protect from direct sunlight and frost.
<b>Density</b>	~ 0.95 Kg/Litre
<b>Total Chloride Ion Content</b>	<0.1% w/w
<b>Equivalent Sodium Oxide</b>	<3.0% Na <sub>2</sub> O w/w

## APPLICATION INFORMATION

<b>Recommended Dosage</b>	1 Bag/m <sup>3</sup> (0.45Kg)
<b>Compatibility</b>	Sika® Lightcrete Powder may be combined with many other Sika products. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information and advice about any specific combinations.
<b>Dispensing</b>	A wet mixing time, which is depending on the mixing conditions and mixer performance, of at least 60 seconds is recommended. When added on site the truck mixer shall rotate its drums at maximum revolutions for at least 1 minute per m <sup>3</sup> concrete and a minimum of 5 minutes to achieve a uniform mix.

## APPLICATION INSTRUCTIONS

### Application Method / Tools

- The standard rules of good concreting practice, concerning production and placing, are to be followed.
- Laboratory trials shall be carried out before concreting on site, especially when using a new mix design or producing new concrete components.
- Fresh concrete must be cured properly and curing applied as early as possible.

### Cleaning of Tools

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

### Notes on Application / Limitations

- When using Sika® Lightcrete Powder a suitable mix design has to be taken into account and local material sources shall be trialled.
- Sika® Lightcrete Powder shall not be added to dry cement.
- Depending on the volume of the low density concrete or mortar placed, and placement method e.g. pumping, a volume change may occur.
- Support from our Technical Service Department is recommended.

## LIMITATIONS

Superplasticizers, water reducers and dispersants may reduce the effectiveness of Sika® Lightcrete Powder.

## VALUE BASE

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.

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