

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

PRODUCT INFORMATION

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

APPLICATION INFORMATION

Recommended Dosage	1 Bag/m ³ (0.45Kg)
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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

Compatibility	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.
Dispensing	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 ³ 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 Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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.

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

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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Sika® Lightcrete Powder
March 2020, Version 01.01
02140403100000011

SikaLightcretePowder-en-IE-(03-2020)-1-1.pdf