



TECHNICAL DATA SHEET

Product: LithoFoam® VC

Version: 11/2018

1. Produkt Specification

Trade name: *LithoFoam® VC*

Produkt description:

LithoFoam® VC is an alkali resistant foam-forming agent based on highly-active, foam-forming proteins with a molar mass of ca. 20,000 to 120,000 Dalton. Proteins are polymers existing in a natural state, which, as a rule, are composed of 20 different amino acid monomers. The specially developed manufacturing process for foam stabilisation guarantees optimum foam-forming characteristics and foam stability as well as unusually constant properties of the product. *LithoFoam® VC* is especially recommendable for production processes that require high stability of the foamed concrete mass.

LithoFoam® VC has been specially developed for the manufacturing of non-flammable, ecological foamed concrete-elements with a low density for the building industry and is therefore characterised, above all, by its outstanding stability with high pH-Values. The pH-value of the foam-forming agent itself is designed to be neutral so that the product may also be utilised for the manufacture of inorganic foams with neutral binding agents, such as plaster. *LithoFoam® VC* increases strongly the viscosity of the aerated concrete during mixing and improves the early compressive strength. The foam density can be varied between 10 to 160 g/l through the specially developed unique low pressured foam generators by Luca Industries International GmbH.

2. Physical Data

Composition:	light brown, yellowish liquid
Density:	1.00-1.20 g/ml
pH-Value (original):	6.50-7.50
pH-Value (10 g/l):	7.00-8.00
pH-Value (1 g/l):	7.00-8.00
Electrolytical conductivity (original):	7.00-8.00 mS/cm
Electrolytical conductivity (10 g/l):	0.70-1.00 mS/cm
Electrolytical conductivity (1 g/l):	0.60-0.90 mS/cm

3. Active Agents Content

Average Value	15-20 %
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4. Special Properties

LithoFoam® VC is not frost-resistant. In case of cold temperature less than 15 °C the viscosity of the product will increase as well as the appearance of the product can change and show different layers. Before using the product, it has to be warmed up in a proper way (for example, using an electric heating blanket). Always heat up and stir the whole package before applying to avoid any inhomogeneity. Once a temperature of 20-25 °C is reached, sufficient stirring is necessary. Freezing and de-freezing of the product doesn't influence the product quality. The product, properly stored at room temperature less than 25°C, has a storage life of at least 1 year. Dilutions of the product are not stable and have to be used within 6 hours.

5. Application

LithoFoam® VC foaming agent is designed to manufacturer LithoPore™ Aerated Concrete - LPAC according to the standards and complete systems of Luca Industries especially for block and panel construction, floor and roof insulation, cast in situ wall filling as well as other aerated concrete applications. For details please requested our overall brochures.

The information contained in this product specification is based on our current state of knowledge and experience. It does not free the user from making his own tests and trial applications. A legally binding assurance of certain properties cannot be inferred from this information. Any existing patent rights as well as any pertinent legal regulations must be observed by the recipient of our products under his own responsibility.

