

# Reniment<sup>®</sup> SB 31L, foaming agent

For cellular lightweight concrete with small bulk density, and for porous lightweight concrete.



## Fields of application

Reniment<sup>®</sup> foaming agent SB 31L is a foaming agent for cellular lightweight concrete with bulk densities of 0.3–2.0 kg/dm<sup>3</sup> and for porous lightweight concrete in foaming process.

Reniment<sup>®</sup> foaming agent SB 31L is particularly well suited for use as:

- cellular lightweight concrete with small bulk densities (> 0.3 kg/dm<sup>3</sup>)
- porous lightweight concrete for wall elements, bricks etc.
- thermal insulation
- adjustment/insulation layer in civil engineering
- light-weight, pourable filler, e.g. for excavation pits, old canals casing stones.

## Properties / effects

In Reniment<sup>®</sup> foaming devices of type SGS, Reniment<sup>®</sup> foaming agent SB 31L is combined with water and air to produce a stable foam. This foam is added to the original concrete in the running mixer.

The resulting air-void content gives the mortar has the following benefits:

- pourable, easy to process consistency,
- suitability for pumping thanks to stable air voids,
- possibility of direct adjustment of bulk density,
- possibility of direct adjustment of stiffness,
- improved water retention ability,
- improved thermal insulation.

## Verification of suitability

Inspection on the basis of the regulations for approval of concrete additives

Technical data	Reniment <sup>®</sup> SB 31L
Colour and consistency	dark-brown fluid
Main ingredient	Protein hydrolysate
Density (20 °C)	1.12 ± 0.02 g/cm <sup>3</sup>
Viscosity (20 °C)	17 ± 5 cst
Solubility in water	total
pH (in aqueous solution)	7 ± 0.5
Freezing point	–15 °C
Chloride content	≤ 0.2 %
Recommended dose	150–230 g per 100 l of foam

## Product preparation

- The addition of Reniment® foaming agent SB 31L, the foam production, and the addition of the foam is carried out by means of the Reniment® SGS foaming devices.
- Depending on the device type, 150–30 g foaming agent per 100 l of foam are used.
- The required foam quantity depends on the desired bulk density of the cellular lightweight concrete.
- When producing cellular lightweight concrete, pay attention to an even consistency of the original concrete and sufficient mixing time.
- When pumping cellular lightweight concrete of low bulk density, we recommend to add Reniment® ST 2 stabilising agent to prevent a potential destruction of voids.
- Check the suitability prior to using the foaming agent.
- Contaminations such as oils, separating agents, mixer protection agents, or aluminium particles may result in an uncontrolled modification of the air void content.

## Health and safety / environmental protection

- No hazardous substance in the sense of the Ordinance on Hazardous Substances.
- No hazardous goods in the sense of the Ordinance on Hazardous Goods.
- GISCODE BZM 1.
- Water hazard class 1 (self-classification): slightly hazardous to water.
- If possible, avoid any contact with skin and eyes.

- A safety data sheet is available for the product.
- Note the information on the container labels.

## Quality assurance

During production, Reniment® SB 31L foaming agent is subject to strict controls.

Quality management system compliant with DIN EN ISO 9001:2000.

## Storage / shelf life

- Protect against frost, strong sunlight, and contaminations.
- Use clean tanks and containers.
- Shelf life in closed containers max. 9 months; storage at > +30 °C reduces the shelf life to 1–2 months.
- After prolonged storage, stir before use.

## Delivered in:

Pots: 30 kg gross for net **Drums: 230 kg net.**

The information is based on our current technical knowledge and experience. Due to the wide range of potential influences during processing and application of our products, this information does not release the user from the obligation to carry out test and trials; the information is to be considered general guidelines only. A legally binding assurance of certain properties or of the suitability for a specific use cannot be deducted from it. The user is solely responsible for ensuring compliance with any proprietary rights, applicable laws and regulations.

AUDAX is in compliance with the specifications of standards DIN ISO 9001.

This certificate is another proof for the quality, reliability, and safety of Renitherm®.



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