

SILCADUR 110

ASSEMBLY FOAM

silca
refractory solutions

Mortar was yesterday!

SILCADUR 110 assembly foam is a 2-component assembly foam for the use in and around fireplaces. The main components are inorganic binding agents and mineral components.

During use the self-foaming **SILCADUR 110** assembly foam expands by a factor of 3 to 4 of its original volume. This is achieved by the “green” foaming agent propylene carbonate, which substitutes creoles, which are regarded as critical in work safety and environmental assessment. In terms of transport regulations, it is a non-hazardous material.

The fast setting as well as the high temperature resistance and high strength of the hardened assembly foam open a wide range of possible applications for installing and connecting fireplaces. By using **SILCADUR 110** assembly foam installation of ventilation grilles, stove doors, cleaning doors, chimney connections, ceramic and other components as well as foaming of joints and other cavities around and inside fireplaces are simplified and optimised in terms of time required.

For the connecting of fireplaces, the SILCAWOOL AST connection piece or connection pieces out of chamotte or wall bushings/pipes can be applied with **SILCADUR 110** assembly foam. For an optimal installation size, we recommend choosing a diameter 10 to 15 mm larger than the connection piece to be used. The cut-out must be dust-free. First, a sufficient quantity of **SILCADUR 110** assembly foam is applied on the cut-out. The connection piece is then gently pressed into the cut-out and turned in. Subsequently, apply **SILCADUR 110** assembly foam from outside once again into the space between the cut-out and the connection piece. Take care that assembly foam does not well up into the empty chimney cross-section. If necessary, SILCAWOOL stripes can be used around the stove pipe/wall bushing to compensate for expansion.



Depending on the processing temperature, protruding foam can easily be processed or removed with a knife in the semi-cured state after approx. 5 minutes. The assembly foam adheres to many building materials such as chamotte, calcium silicate, brick, lime-sand brick, aerated concrete, vermiculite, ceramic/oven tiles and metal/oven pipes.

SILCADUR 110 assembly foam is easy to apply on both horizontal and vertical surfaces using a cartridge gun. The viscous mass is easy to apply and can be dispensed individually by applying pressure with the cartridge gun. All designated surfaces must be clean, free of dust and grease, as well as free of loose particles, fibres and the like. SILCA calcium silicate boards are pre-treated with SILCACON primer HFS on the relevant areas.

After removing the sealing cap of the twin cartridge, the static mixer is screwed onto the cartridge. The mass must be squeezed out of the twin cartridge quickly and evenly. If there are temporary interruptions, the mixing nozzle should be changed. It is possible to reseal the cartridge. When opening the sealing cap again, the passage in the cartridge must be cleaned and a new static mixer must be screwed on. Tools and clothing soiled with **SILCADUR 110** assembly foam can be easily cleaned with water so long as the assembly foam has not yet cured.

Using the assembly foam **SILCADUR 110** is optimal at temperatures between 15°C and 25°C. Lower temperatures (5-15 °C) lead to a significantly delayed foaming and a delayed curing. Higher temperatures (above 30 °C) lead to highly accelerated foaming and faster curing.

The pasty assembly foam **SILCADUR 110** cures to a firm, dimensionally stable, pumice-like building material. After 15 minutes the assembly foam becomes resilient. Fully cured the assembly foam can be plastered and/or covered.

When fully cured after approx. 24 hours and after an initial thermal exposure to approx. 250°C, **SILCADUR 110** assembly foam becomes insensitive to moisture. The upper limit for application temperature is 1100 °C.

SILCADUR 110 assembly foam is convincing with its simple and effective application and rapid curing. With an initial thermal exposure in the cured state at temperatures above 240°C, propylene carbonate is eliminated. There are no further emissions. The cartridges must be stored upright with the opening facing upwards. The shelf life in unopened containers at storage temperatures between +5°C and +25°C is at least 1 year. The assembly foam must be protected from frost and long-term storage above 30°C.

For the application, we recommend the use of cartridge press MAG-345 of IRION Vertriebs GmbH, www.irion-gunshop.de