FoamTack Pro Construct

CERTIFIED FOAM ADHESIVE FOR LOAD-BEARING WALLS

- KOMO quality mark for load-bearing walls
- Fast application, fast curing
- No mixing or water required
- No waiting time between block layers
- Indoor and outdoor use
- One can of FoamTack Pro Construct = 160 kg of mortar = 10 m² of aerated concrete blocks
- Stronger than mortar

Technical Info

As of 24 August 2023, appropriate training must be completed for industrial or professional use.

- Base: polyurethane.
- Curing: polymerisation through moisture (such as air moisture).
- Colour: grey.
- Skin formation (at 23°C and 50 % RH) FEICA TM 1014: 6 minutes.
- Load-bearing (at 23°C and 50% RH): 60 minutes.
- Dimensional stability (FEICA TM 1004): <3% deformation.
- Curing time: 30 min.
- Coverage: 60 m (diameter 2 cm).
- Density: 22 kg/m³.
- Thermal conductivity (FEICA TM 1020): 0.036 W/m·K.
- Sound insulation: 60 dB.
- Shear strength: >0.9 N/mm² (concrete).
- Application temperature: −10°C to +35°C (ambient); +10°C to +35°C (product).

Product

Characteristics

KOMO-certified adhesive foam for all load-bearing and non-load-bearing structures made of dimensionally stable materials such as calibrated quick-build blocks, sand-lime bricks (silicate blocks), aerated concrete or concrete blocks (non-load-bearing). This is a high-performance alternative to mortar or powder adhesive. With fast curing times and moisture-free application, the wall can be finished practically straight away (plastering, window installation, and more).

Accelerates the work process, with no mixing required and no waiting between block layers. One can of FoamTack Pro Construct is sufficient for 10 m² of aerated concrete blocks (600 x 250 x 150 mm).

FoamTack Pro Construct is a non-shrinking adhesive foam that ensures optimal contact between bonded materials, even with hollow blocks. It can be applied in temperatures ranging from -10°C to +35°C.

Applications

- Temperature resistance: −40 °C to +90 °C; peak temperatures: −60 °C to +130 °C.
- Durability: resistant to weather, water and rot; sensitive to UV light.
- Can volume: 880 ml.
- Shelf life: minimum 15 months in the original sealed packaging, stored upright in a cool, dry place .
- Safety precautions: Please consult the safety data sheet.

Packing

FoamTack Pro Construct - aerosol 880ml	670008000
Combipack FoamTack Pro Construct	670996000
Pedestal Display FoamTack Pro Construct	670994000

- Certified bonding of load-bearing structures made from dimensionally stable ceramic quick-build blocks, aerated concrete blocks or sand-lime bricks.
- Bonding of rigid insulation panels and other construction elements without thermal bridging.
- Installation of plasterboard, furniture panels and interior fittings on walls and frameworks.
- Installation of window sills.
- Securing of electrical flush-mounted boxes.

Use

Basic requirements

- The materials must be structurally sound and suited to the application. Verification and calculation of the load-bearing capacity of the structure is the responsibility of a suitably qualified and authorised professional. Load-bearing structures must be constructed only by trained professionals.
- The materials used must be dimensionally stable in all dimensions and suitable for thin-bed adhesion, such as calcium silicate blocks (sand-lime bricks) of tolerance class T3 or aerated concrete blocks of class TLMB.
- The application of FoamTack Pro Construct must comply with the processing instructions as described in the KOMO SKGIKOB certificate.014905.01.NL., which can be downloaded from the product page.
- The bottom layer (plinth course) is fully laid in a mortar bed using a plinth mortar matched to the compressive strength of the entire structure. The plinth course must be flat and accurately positioned. The additional bonding using FoamTack Pro Construct is done after the plinth-course mortar has cured (functional curing).
- As of 24 August 2023, appropriate training must be completed for the industrial or professional use of polyurethane-based products. Use in a well-ventilated area and wear appropriate personal protective equipment.

Preparation – general work

- Check the materials for quality and dimensional stability. The surfaces must be clean and free of dust and ice. The bricks may be slightly damp (touch dry), but not soaked. Misting with water before or after applying the adhesive accelerates the reaction and promotes uniform cell formation on very dry bricks. The ideal can temperature is +20°C.
- Protect any sensitive materials from spillages.
- Shake the FoamTack Pro Construct can vigorously for 30 seconds. Mount the can onto the Spray & PUR Gun. Adjust the control screw to make it easy to dispense the perfect bead of adhesive. Dispense from a height of about 1 cm and hold the gun at an angle of approximately 45 degrees. Dispense with a pulling motion. Shake the can regularly during use.
- Always brush the top of the previous layer and the bottom of the next block to remove dust and irregularities. For blocks up to 13 cm wide, apply one bead of adhesive; for wider blocks, apply two beads.
- Place the next layer of blocks before a skin forms. The blocks should be stacked within 3 to 6 minutes of applying the adhesive beads, depending on temperature and humidity. If a skin forms due to waiting too long, the adhesive should be scraped off and fresh adhesive applied.
- When using blocks with tongue-and-groove joints, the vertical joints should not be bonded. For corner joints, custom-cut blocks or blocks without tongue-and-groove, the vertical joints must be bonded.

Applying DPC membrane

- Brush the top of the plinth block to remove dust. Dispense two beads of adhesive, each 2 cm in size, onto the plinth block, then lay the DPC membrane. Wait 5-10 minutes to allow the first layer of adhesive to cure. Lay a new row of blocks directly on the

DPC.

Bonding hollow quick-build blocks

- Use only suitable, smooth-faced, calibrated rapid-build blocks and follow the manufacturer's application requirements. Walls must always be built according to best practice to achieve a straight structure in all planes.
- Dispense one or two beads of adhesive, 5 cm thick, along the entire length of the previous layer. Maintain a distance of 4-5 cm from the edges of the block. Place the next layer of blocks within 3 to 6 minutes of applying the adhesive beads (depending on temperature and humidity) and before a skin forms.

Bonding solid blocks (aerated concrete, silicate blocks, sand-lime bricks, concrete blocks)

- Use only suitable, dimensionally stable blocks recommended for thin, dry bonding. Use levelling profiles or a calibrated spirit level to ensure alignment.
- Dispense one or two beads of adhesive, each 2 to 3 cm thick, over the entire length of the previous layer. Maintain a distance of 4-5 cm from the edges of the block. Place the next layer of blocks within 3 to 6 minutes of applying the adhesive beads (depending on temperature and humidity) and before a skin forms. Gently tap the blocks into place with a rubber mallet within the working time.

Bonding plasterboard, furniture panels and rigid insulation boards

- Apply adhesive in 2-5 cm beads, depending on the surface flatness. Wait before placement until the adhesive starts to form threads when touched (around 2 minutes). The adhesive now has enough tack to support the panels. Position the panels on the wall and keep in place for 10 minutes.
- Bonding to an existing wall: apply FoamTack Pro Construct evenly around the perimeter (5 cm from the edge) in a criss-cross pattern.
- Bonding to a wooden, aluminium or steel support structure: apply FoamTack Pro Construct to the support structure.

Finishing and cleaning

- Cured after 30 minutes. Load-bearing and ready for finishing after 60 minutes.
- Remove uncured foam with Tec7 Spray & PUR Cleaner. Use the Spray & PUR Cleaner to clean the gun inside and out as well.
- It's best to keep any open can mounted on the Spray & PUR Gun. Close the valve completely and store upright with the gun at the top. A can stored like this can be reused for several weeks.
- Foam may spray from the valve when the can is removed. Do this in a safe environment, pointing the valve away from people and sensitive surfaces.
- Clean your hands with Powerwipes. Scrape off any cured foam. Any remaining residue can be loosened with Remove All.
- Does not bond to PE, PP or other closed-cell plastics. If in doubt, perform an adhesion test.