

Technical Information Sheet



FDT flat roof foam adhesive

Delivery form	Item code
Piece 800 ml spray can flat roof foam adhesive	17 30 220
<i>Note: Additional dimensions and colors available upon request</i>	

Description

The flat roof foam adhesive is a versatile, professional-grade foam designed for use on flat roofs. It is ideal for safe and fast bonding of thermal insulation materials to bituminous vapor barriers as well as for fleece-backed roofing membranes on various substrates. The flat roof foam offers excellent resistance to ageing and cures quickly. Its low foaming properties ensure excellent coverage and high area output.

Advantages:

- Resistance to wind loads (tested by I.F.I. Aachen)
- Universally applicable
- Quick curing
- Fast and safe bonding
- Smooths out minor unevenness
- High area coverage
- Low foaming behavior
- Easy to use

Application and processing

The flat roof foam adhesive is a single-sided adhesive suitable for bonding thermal insulation made of polystyrene, polyurethane and phenolic resin rigid foam to bituminous vapour barriers, trapezoidal steel sheets, concrete, masonry and wood-based materials in flat roof applications. The foam can also be used to bond fleece-backed polymeric roofing membranes, such as Rhepanol hfk, to thermal insulation boards, concrete, undamaged bituminous membranes and wood-based materials in flat roof applications.

The flat roof foam adhesive is not suitable for bonding to materials such as silicone, polyethylene, Teflon, greases or similar substances, e.g. talcum-coated and film-laminated bitumen membranes and PUR in-situ foams. If there is any uncertainty, preliminary tests or test bondings should be carried out. Before bonding mineral fibre and laminated insulation materials to one another, preliminary adhesion tests must be carried out in accordance with the insulation manufacturer's instructions.

When using flat roof foam adhesive, please wear suitable protective gloves (item no. 17 50 040) and safety goggles. Remove the protective cap, place the can of flat roof foam adhesive on a stable surface and screw it onto the foam gun with the valve facing upwards, then shake the can vigorously 30 times with the valve facing downwards.

First, fill the foam gun with flat roof foam adhesive by briefly pressing the trigger (for approx. 2 seconds). During work, hold the can in the gun with the valve pointing downwards. The optimum foam quantity can be regulated using the adjustment screw on the gun handle. Hold the foam gun as vertically as possible when applying the foam, maintaining a distance of 1 to 2 cm between the nozzle and the surface.

Adjust the foam output by pressing the lever. Depending on the temperature and humidity, place the insulation board or roofing membrane onto the adhesive bed within approximately 8 minutes and press it down firmly. Re-positioning the insulation boards or adjusting the roofing membranes must be avoided, as this would damage the adhesive structure and significantly reduce its bonding strength. In strong winds, the panels must be secured using suitable weights.

On steel trapezoidal roofs, the adhesive strips must always be applied to the vapour barrier at the highest point of the top flange. When changing cans, replace the empty can immediately to prevent the foam from hardening in the gun. Screw the new can of flat roof foam adhesive onto the foam gun with the valve facing downwards, then shake vigorously 30 times. Mechanically remove any hardened foam residue from the gun nozzle. If the break in work is only brief, the can can be left on the foam gun. If there are longer breaks, remove the can and clean the spray gun and can valve with spray & gun cleaner.

Do not walk on the insulation boards until the adhesive has set. The substrates must be dry, even, firm, clean and free of dust, cracks and grease. Depending on the weather, it is advisable to moisten the surface slightly. In strong winds, take care to ensure that the flat roof foam adhesive does not contaminate nearby objects, building components or people.

These instructions have been compiled based on our current experience and knowledge – preliminary tests are required!

Consumption

For bonding of insulation to bituminous vapor barriers.

Approx. 100 g/m² – 5 beads of adhesive per metre (spaced approx. 20 cm apart) with a diameter of approx. 30 mm.

For bonding of fleece-backed polymeric roofing membranes, e.g. Rhepanol hfk.

approx. 120 g/m² – 6 beads of adhesive per metre (spaced approx. 16.5 cm apart) with a diameter of approx. 30 mm. The specified adhesive quantities are to be used for wind loads of up to 3,000 N/m².

Properties

Technical data	Declared value	Standard
Base	Polyurethane	
Foam color	light green	
Substrate temperature	min. +5 °C to max. +30 °C optimal +20 °C	
Open time	approx. 10 min.*	
Tack-free time	approx. 30 min.*	
Temperature resistance	-40 °C to +90 °C	after curing
Reaction to Fire	Building material class B1	DIN 4102- Part 1 (German standard)
Full cure (Ø 20 mm)	approx. 85 min.*	

* depending on humidity and temperature

Storage

Store in a cool, dry place in an upright position.

Shelf life

12 months at +20 °C.

Packaging and disposal

800 ml aerosol spray can.

Waste code number unused product: 080409

Waste code number uncleaned packaging: 150110

Precautions and health and safety

See safety data sheet.

Attention!

For commercial and industrial use — whether as an employee or a self-employed individual — you must successfully complete the appropriate training on diisocyanate-containing PU adhesives and PU sealants before using diisocyanates, effective August 24, 2023. This requirement stems from a REACH restriction regulation (dated August 4, 2020).

For more information, please visit our website: www.fdt.de/news/haben-sie-es-schon-gewusst/

Transport

Information on transport labeling can be found in section 14 of the safety data sheet.

Please note: As our products are constantly evolving, please contact our technical department or visit www.fdt.de for the latest information on our products.

Legal Notice:

We refer emphatically to the fact, that all details mentioned, especially the application and utilization recommendation for the products and their system accessories, have been developed under normal conditions, and based on our knowledge and experience. Appropriate storage and usage of the products are assumed. A warranty or reliability of a finished project cannot be deduced because of varying materials, substrates and differing work conditions, neither by any indications nor from verbal statements, irrespective of any legal positions. For the possible accusation that FDT acted intentionally or grossly negligent, the user has to supply evidence that they provided FDT with all information and details necessary for an appropriate and correct evaluation through FDT in written form, immediately available and complete. The user is responsible for ensuring that the products are suitable for the given application. It is FDT's right to change product specifications without notice. Property rights of third parties are to be considered. In addition, our particular sales and delivery terms are valid. The latest version of our product data sheet is obligatory, which can be requested directly through FDT. All information as well as all technical and drawing data comply with current technical standards and are based on our experience. National standards and regulations must be observed.

Technical changes reserved. As of 5th January 2026 | © 2026 FDT Flachdach Technologie GmbH, Mannheim, Germany