



Technical Data Sheet

TL 05.11 DEU PROFI PU 870 LOW EXPANSION

Product:

One-component, special insulating and structural foam based on moisture-curing polyurethane. Specially developed for low expansion and increased strength requirements. The propellant gas does not contain CFCs - without F.C.K.W.

Properties:

- Low expansion
- Fast curing, dimensionally stable
- High strength, good sound and thermal insulation
- High filling capacity, uniform structure, good sound and thermal insulation
- High adhesion and adhesion to substrates such as: masonry, concrete, stone, wood, polystyrene, plastics, etc.

Usage:

Installation of window frames and door frames

Filling the assembly space between panels

Sound and thermal insulation between the cab and the living area of the vehicle

Bonding of window sills, wooden wall cladding, insulation of roof structures

Filling of el. conduits and pipes through walls and floors

Suitable for filling joints between EPS, XPS and mineral fiber (wool) insulation boards

Packaging:

- Gun Grade 750 ml

Color:

- Yellow

Specifications

Basis	-	polyurethane	
Density	kg/m ³	25	ISO 7390
Insulation value	mW/m	30-35	DIN 52612
Heat resistance	°C	-40 / +90	after curing
Application temperature	°C	+10 / +35	optimal +15 / +20
Temperature of the	°C	≥ +5	optimal +10 / +20
Skin time	min	≈ 8-10	23 °C / 55 % RH
Cutability	min	60	
Full cure	hours	2-24	Depends on temperature and RH
Dimensional stability	%	-5% < DS < 0 %	
Structure	%	70	closed cells
Resistance to UV radiation		no	surface treatment
Fire reaction class	-	F	EN 13 501-1
Minimum joint width	mm	10	
Maximum joint width	mm	40	

Surface:

It must be clean, dry, solid, free of dust, loose particles, grease, oil and icing. We recommend moistening the substrates with a water spray.

Limitation:

Not recommended for underwater and closed areas, no adhesion to PE, PP, silicone, PTFE and oily substrates. It is not recommended to heat the foam or joints at low temperatures, do not apply them to frost covered substrates.

Instructions:

Shake the can properly before min 30x. When applying, keep the container upside down, fill the joints from the bottom upwards, approx. 60%. Fill joints over 40 mm in layers, always after the previous layer has hardened. Surface treatment (painting, plastering) at least 24 hours after application.

Warning:

Clean uncured foam with PU foam cleaner, cured foam can only be removed mechanically. Wear protective equipment. Secure substrates against splashes of paper or foil.

Cured PUR foam is not UV resistant. This resistance is dependent on exposure time to direct sunlight (from about 14 days to 3 months). After this time together with other climatic effects (rain, frost, etc.), the foam structure is disrupted by UV radiation.

Cleaning:

Material: immediately with technical petrol / Universal Cleaning Wipes

Hands: water and soap, reparative hand cream.

Shelf life:

In dry and unopened containers at temperatures from +5 ° C to +25 ° C. The expiry date is indicated on the packaging.

Update:

Updated:

Issued: 01.08.2017

The product conforms to specifications during the warranty period. The information and data provided are based on our own experience, research and objective testing and we assume that they are reliable and accurate. However, the company cannot know the various applications where and under which conditions the product will be applied, nor the application methods used, therefore under no circumstances warrants beyond the scope of this information as to the suitability of the products for certain uses or use procedures. The above information is of a general nature. Each user is obliged to make sure that they are suitable for their own tests. For further information please contact our technical department.