UNIVERSAL

RPP-45-K

UNIVERSAL POLYURETHANE FOAM

Low-expansion, one-component, all-season universal polyurethane foam

FEATURES AND BENEFITS

- Suitable for year-round use, even at ambient temperatures as low as -10°C
- Effective sound insulation that reduces noise
- Can be painted or plastered after curing
- Can be trimmed and initially processed 25 minutes after application
- High yield of up to 45 liters
- Resistant to mold and fungi
- Excellent adhesion to most construction materials and substrates
- Excellent thermal insulation helps reduce heat loss and prevents thermal bridging
- Does not contribute to global warming or ozone layer depletion
- No shrinkage, ensuring durable filling and eliminating the risk of window or door frame deformation after application
- Retains its properties across a wide temperature range, from -50°C to +90°C

SUBSTRATES

- Concrete
- Brick
- Gypsum
- Wood and wood-based materials
- PVC-U profiles
- Expanded polystyrene
- Metal

APPROVALS

ITB-KOT-2021/2057 wydanie 1
KDWU-4_2021-2021_2057-1

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Low-expansion, one-component polyurethane foam with a gun applicator, which cures through the moisture present in the air. This product is designed for professional installation, sealing, and soundproofing of construction elements, while providing excellent thermal and acoustic insulation properties. It can be used for installing windows and doors, thermal insulation of installation networks, mounting window sills, and filling gaps in building thermal insulation systems.

APPLICATIONS

- Installation of doors and windows
- Thermal insulation of water supply, sewage, and central heating systems
- Sealing and installation of window sills
- Thermal insulation of roofs and flat roofs
- Filling gaps in thermal insulation systems during building insulation works
- Soundproofing of construction elements

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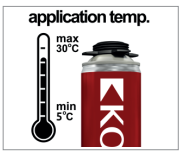
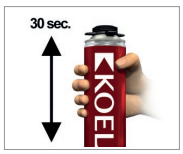
INSTRUKCJA MONTAŻU





1. Put on protective gloves. Thoroughly clean the work surface of dust and dirt, and degrease it.
2. Before use, make sure the can is above 0°C (the optimum temperature is +20°C).
3. Shake the can vigorously for approximately 30 seconds to ensure thorough mixing of the components.
4. Attach the applicator to the can. The working position is with the can upside down.
5. Dampen the surfaces to be treated with water before application.
6. Fill the gaps from bottom to top in a zigzag pattern, alternating from one side of the gap to the other. Fill the gaps to 60% of their depth, but no more than 3-4 cm per layer. Gaps wider than 3-4 cm should be filled in layers, allowing each preceding layer to cure before applying the next one. Moisten each layer with water using a spray bottle after application.
7. Once fully cured, cut off any excess foam with a knife and protect it from UV radiation by covering it with plaster, paint, acrylic sealant, or silicone.
8. If work is interrupted for more than 15 minutes, clean the applicator nozzle with foam cleaner.
9. When removing the gun from the can, clean the nozzle and the gun, both inside and outside, with foam cleaner.

TECHNICAL DATA

Parameter		Value	Methods
Foam yield	[l]	max 45	
Application temperature	[°C]	-10°C ÷ +30°C	
Can temperature	[°C]	+10°C ÷ +30°C (optimum +20°C)	
Colour	-	Light yellow	
Expansion rate	[%]	122 ± 10% for the gun-grade version / 136 ± 10% for the straw-grade version	
Skin formation time (dust-free time)	[min]	5-10	20°C, RH 90%
Initial processing time	[min]	25 ± 10% for the gun-grade version / 45 ± 10% for the straw-grade version	20°C, RH 90%
Full curing time	[h]	24	
Fire rating	-	B3	DIN 4102
Dimensional stability	[%]	±5% (length and width) / ±9% (thickness)	40°C, RH 95%, 24 h
Water absorption after 24 hours of partial immersion Water absorption after 24 hours of partial immersion	[kg/m²]	≤1	PN-EN 1609:2013
Tensile strength	[kPa]	≥ 50	PN-EN 1607:2013
Compressive strength at 10% deformation	[kPa]	≥15 at 10% deformation	
Shear strength	[kPa]	≥ 35	PN-EN 12090:2013
Thermal resistance (after curing)	[°C]	-50 ÷ +90	
Thermal conductivity coefficient λ	[W/mK]	0,036	
Solubility of the product in organic solvents	-	Acetone, only before curing	RPC-0500 Foam Cleaner
Capacity	[ml]	750	

Parameter		Value
Shelf life	[month]	15
Storage conditions	-	Unopened packaging, stored in an upright position
		Storage temperature: +5°C to +30°C, preferably at room temperature
		A well-ventilated area away from direct sunlight and other sources of heat and ignition
		If application is interrupted for more than 15 minutes, it is recommended to protect the gun by leaving the can attached until the next use

LOGISTICS DATA

Product	Colour	Volume [ml]	Quantity [pcs.]			Weight [kg]			Bar Codes
			Box	Outer	Pallet	Box	Outer	Pallet	
RPP-45-K	Light yellow	750	12	12	672	10.35	10.35	579.6	5906675143392