

# R-RPP-B1

**RAWLPLUG B1**  
**FIRE RESISTANT PU FOAM**

B1 - Low-pressure, one-component polyurethane fire-resistant foam



## FEATURES AND BENEFITS

Fire-resistant - EI 240 re resistance, providing technical approval criteria are fulfilled

Insulates against fire, smoke and gas

Self-extinguishing

Ideal for mounting, sealing and soundproofing

Cutting time 18±10% min after application

Can be painted or plastered when cured

Excellent adhesion to most materials and substrates used in construction

Resistant to mould and fungi

## BASE MATERIALS



Brick



Concrete



Plaster



Wood



Metals



Polystyrene



Rigid PUR foams

## APPROVALS AND REPORTS

- ETA-24/0017
- 1488-CPR-1104/W
- DoP-24/0017-B1
- ITB-KOT-2023/2460 wydanie 2
- KDWU-2023-2460-2-RAWLPLUG B1





Fire-resistant polyurethane foam is designed for sealing horizontal and vertical linear joints between stationary building partitions inside buildings. It provides reliable sealing of joints between building elements made of concrete, reinforced concrete, and walls made of autoclaved aerated concrete blocks, solid bricks, perforated bricks, hollow bricks, and hollow blocks with a density of not less than 600 kg/m<sup>3</sup>. PU foam is also ideal for sealing spaces between window and door frames made of wood, metal, or PVC, which is particularly important during the installation of windows and doors (except fire-rated doors). It is important to note that such installations should be carried out using mechanical fasteners. Building partitions where the foam is used must be classified according to the EN 13501-2 standard for the required fire resistance time. Polyurethane foam is perfect for sealing linear joints or gaps with a movement capability of less than 7,5%. Fire-resistant polyurethane foam is a reliable solution that ensures safety and fire protection in buildings.

## APPLICATIONS

For all applications with a legal requirement for fire resistance class B-1 according to DIN 4102

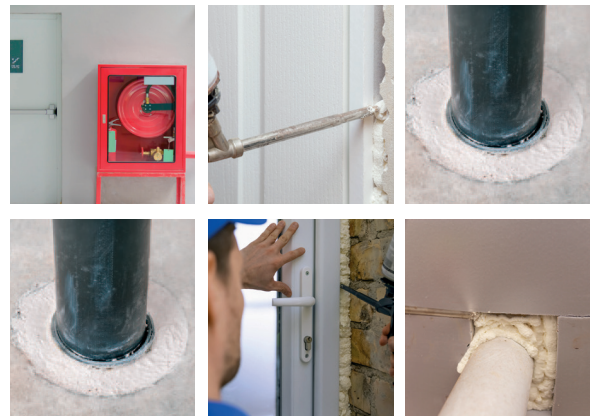
For all applications where the increased resistance according to PN-EN 13501-2:2016 is required:

- Sealing linear joints between stationary building partitions
- Restoring fire resistance of rigid walls
- Sealing spaces between window and door frames during installation

For fireproof assembly of PVC, wood and aluminum frames

For fire resistant sealing of joints in roofing, walls and ceilings

For fire resistant filling of frame structures



## INSTALLATION GUIDE



1. Wear protective gloves. Ensure surfaces are free from dust, dirt or debris.
2. Before using, make sure that the can temperature is above zero (optimum +20°C). Application temperature from +5°C up to +30°C.
3. Shake can vigorously for 30 seconds to mix properly components.
4. Screw straw-applicator or gun-applicator onto the can. Hold can upside-down during application.
5. Moisten surfaces with water prior to application.
6. Fill gaps from down to up, zigzag motion, alternating from one wall to the other. Fill gaps to approximately 60 % volume. Max. wide of the gap 3-4 cm. Wider gaps should be applied after hardening of the previous layer. Each layer should be moistened with water using a spray.
7. After full curing, cut the excess foam with a knife and protect it from UV exposure by coating with plaster, paint, acrylic or silicone.
8. In the event of a stoppage exceeding 10 minutes duration, wipe the nozzle with cleaner for foam applicator.
9. After removing the applicator gun from the can, wipe down the nozzle and gun (internal and external surfaces) using a cleaner.

## TECHNICAL DATA




Parameter		Value	Methods
Application temperature	[°C]	+5 ÷ +30	
Can temperature	[°C]	+20	
Efficiency	[dm <sup>3</sup> ]	max 45 for a 750 ml capacity and max 28 for a 500 ml capacity	
Colour	-	pink	
Skin formation time	[min]	6-8 min	20°C, RH 50%
Pretreatment time	[min]	18+-10% min	20°C, RH 50%
Complete hardening time	[h]	24	
Density	[kg/m <sup>3</sup> ]	12 - 14	PN-EN ISO 845:2000
Water absorption after 24h	[kg/m <sup>2</sup> ]	1	PN-EN 1609:2013 method A, on samples with dimensions (150 x 150 x 25) mm
Tensile strength perpendicular to the front surfaces	[kPa]	60	PN-EN 1607:2013 on specimen sizes (50 x 50 x 25) mm
Shear strength	[kPa]	35	PN-EN 12090:2013 on specimen sizes (250 x 50 x 25) mm
Thermal resistance (upon hardening)	[°C]	-50 ÷ +90	
Thermal conductivity	[W/mK]	0.036	
Preparations solubility	-	Acetone, before hardening	Cleaner RPC-0500
Soundproofing coefficient	[dB]	61	EN 12354-3
Volume	[ml]	750 or 500	
VOC Content	[g/l]	157	calculated
Fire resistance classification	-	EI 240	PN-EN 13501-2: 2016

Parameter		Value
Shelf life	[month]	12
Storage conditions	-	upright position in an originally closed container
		the storage temperature: from +5°C to +35°C (room temperature is recommended)
		dry, cool and well-ventilated place away from direct sunlight and other sources of heat and ignition
		storing the product in conditions other than recommended may shorten the life time even by 3 months

## PRODUCT COMMERCIAL DATA

Product	Color	Capacity [ml]	Quantity [pcs.]			Weight [kg]			EAN
			Individual packaging	Collective packaging	Pallet	Individual packaging	Collective packaging	Pallet	
R-RPP-B1	pink	750	12	12	672	11,3	11,3	660,3	5906675285047
R-RPP-B1-500	pink	500	12	12	1152	7,5	7,5	747,5	5906675550763

RELATED PRODUCTS

<p>Professional gun for expanding foams <b>RPP-GUN-NC</b></p> 	<p>Agent for removing uncured polyurethane foams <b>R-RPC-0500</b></p> 	<p>Protective gloves for power tools <b>R-PGL</b></p> 
<p>Professional grade metal polyurethane applicator gun for use with gun foams</p>	<p>High power cleaner for removing uncured polyurethane foams or adhesives and cleaning equipment</p>	<p>Protective gloves with special cushions to reduce vibration when working with power tools</p>