Technical datasheet

OTTOPUR OP 920

The 2-component foam with very fast curing

2-component PU adapter foam | For indoor and outdoor application | OP 920

Characteristics

- Can be cut after approx. 9 minutes
- Braces can be removed after approx. 30 minutes
- Can be fully loaded after approx. 3 hours
- Foam capacity: up to 12 litres per 400 ml can
- 60 dB sound insulation according to EN ISO 717-1
- 0.026 W/mK insulation value according to DIN 52612

Fields of application

- Mounting and insulating of door and window frames made of wood, steel and plastic in masonry
- Suitable for the mounting of wooden stairs
- Suitable for mounting basins made of acrylic and steel (shower trays)
- Joining of well and shaft rings in sewer manholes and domestic sewage treatment plants
- For the bonding of polystyrene rigid foam panels as perimeter insulation according to DIN 4108-2

Standards and tests

- General building inspection certificate - normal inflammable building material (B2) according to DIN 4102-1
- French VOC-emission class A+
- EMICODE® EC 1 Plus - very low emission

Technical properties

Foam yield (EN 17333-1) [l]	~ 10 -12
Joint-foamed yield (EN 17333-1) [lm]	~ 10
Temperature of can from/to [°C]	+ 10/ + 25
Ambient temperature [°C]	+ 5 / + 35
Temperature of substrate [°C]	+ 5 / + 35
Processing time [minutes]	~ 5
Skin formation (EN 17333-3) [min]	~ 6
Cuttability (EN 17333-3) [min]	~ 9
Load resistance (despreadable) at rope strength of 20 mm [minutes]	~ 30
Loadable at rope strength of 20 mm [minutes]	~ 180
Free-foaming density (EN 17333-1) [kg/m³]	~ 46
Evaluated joint sound reduction index joint width 10mm [dB]	~ 60
Evaluated joint sound reduction index joint width 20mm [dB]	~ 59

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SEALING & BONDING

Thermal conductivity λ [W/mK]	0,026
Compressive strength (EN 17333-4) [kPa]	~ 85
Tensile strength (EN 17333-4) [kPa]	~ 175
Tensile expansion (EN 17333-4) [%]	~ 9
Dimensional stability (EN17333-2) [%]	+ - 3
Hardening pressure (EN 17333-2) [kPa]	~ 6
Post-expansion (EN 17333-2) [%]	~ 75
Temperature resistance from/to [°C]	- 40 / + 80 [1]
Shelf life at 23 °C/50 % RH [months]	18 [2]
Colour	light green

1) temporarily + 100 °C

2) from date of manufacture, store unopened cans upright

These data are not suitable for the issue of specifications. Please contact OTTO-CHEMIE before issuing specifications.

Important information

Please note: Can is under pressure. Protect from UV-radiation and temperatures over +50 °C.
The PU foam cures at room temperature within 180 minutes after mixing by chemical reaction of both components. Foam has to be applied immediately after activation. Aerosol can should be emptied immediately, at the latest within 5 minutes after mixing (pot life at 20 °C) otherwise curing of the foam takes place inside the aerosol can **(explosion hazard!). Higher temperatures shorten the time in which processing must be completed.**Do not use aerosol cans with a temperature of above +25 °C.If necessary, cool the aerosol can down in a cold water bath beforehand.
The PU foam has been designed for normal building moisture and absorbs it without impairment to the adhesive strength during the curing process.For this reason the surfaces and the applicated foam should not be moistened additionally. Excessively wet surfaces can cause shrinkage of the curing foam. The cured foam is medium hard, elastic, predominanty closed cell, rot-resistant, resistant to water, heat and low temperatures as well as against aging, but not against UV-radiation.
The building components must have sufficient inherent stability and should be built up correctly and professionally.The maximum width of the joint during the fitting of door frames is 30 mm. The application of the PU foam on swinging or vibrating building components is not advisable. Avoid use with gastight materials, e.g. metal sheets, or carry out own preliminary tests.
External doors and window frames must be additionally secured with a mechanical fastening according to the building regulations.
Fresh product residues can be removed with OTTOPUR Cleaner or OTTO Cleaning wipes. In case of skin contact, wash with water and soap and rinse thoroughly.
Cured foam can only be removed mechanically
To ensure the water impermeability when using as a well foam, the hardened PU-foam may not be cut.
PU-foam should be protected against UV-exposure by coating, sealing with sealants (e.g. silicone, polyurethane or hybrids) or covering.
For bonding perimeter insulation, apply vertical foam strands from bottom to top at intervals of 20-30 cm.
Press the insulation boards lightly against the wall within about 5 minutes (at 20 °C).
One 400 ml can is sufficient for bonding about 4 m² of insulation boards.

Application information

Please observe information from the frame manufacturer and the latest requirements when carrying out assembly works.
1. Wedge wooden frame and brace it. The maximum joint width is 30 mm. Dust off dusty/sandy substrates and prime with **OTTO Primer 1105**.
2. To activate the can, turn the inside part of the bottom of the can four full turns (360°) to the right until it stops against the can.
3. Shake the can vigorously 20-30 times. A slight rattle heard from the inside of the can indicates that the can has been activated.
4. Remove the cap of the can and screw the angle adapter tight onto the valve as far as it will go, but be careful not to damage the valve.
5. After activating and shaking the can, leave it to cure for 30 seconds before using it. The release of the foam can be precisely regulated by means of applying different pressure or by tilting the adapter when the valve is facing downwards.
6. Carefully activate the adapter to control the amount of foam.
7. Check: the foam must be green throughout upon release (if not, repeat steps 2 and 3). The foam only hardens evenly and quickly if the 2-component system has been activated correctly.
8. Use within 5 minutes of mixing! If the mixed foam is not released, the can might heat up in excess of 50 °C – explosion hazard.
9. Apply a hand-sized amount of foam to three points on the left and the right of the frame (at hinge and door lock level).
Attention: the joint of steel frames must be completely filled with foam. Do not exceed a maximum temperature of + 23 °C.
10. Braces must be used during the entire bracing period.
Due to the many possible influences during and after application, the customer always has to carry out trials first.
Please observe the recommended shelf life which is printed on the packaging.

Packaging

	400 ml aerosol can
light green	OP920-82
Pieces per packaging unit	12
Pieces per pallet	576

Safety precautions

Please observe the material safety data sheet.

Disposal

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Information about disposal: Please refer to the material safety data sheet.

Brand information

EMICODE® is a registered trademark of GEV e. V. (Düsseldorf, Germany)

Warranty information

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