

Technical Data Sheet

BENMAN MULTIPURPOSE POLYURETHANE FOAM PU 40

Product code: 73016

The one-component polyurethane foam cures under the influence of humidity contained in the air and is characterized by a homogeneous, fine-cellular structure. The foam is produced in a plant with the Quality Management System ISO 9001:2015 implemented.

BENEFITS

- high foam growth (post expansion)
- increased foam pressure
- standard foam yield
- standard foam flammability
- normal foam adhesion to surface

RECOMMENDED USES

- filling free spaces, cracks, gaps, pipe penetrations
- sealing roof, wall and floor joints
- sealing for window fitting
- sealing for door fitting
- thermal insulation
- acoustic insulation



TECHNICAL DATA

Parameter (+23°C/50% RH)	Value
Yield (free foaming) (RB024) [l]	≤40
Yield in gap (The value given for a gap with dimensions 35*1000*35 (width *length *depth [mm])) (RB024) [l]	20 - 26
Skin formation time (EN 17333-3:2020) [min]	≤12
Cutting time (EN 17333-3:2020). The result given for a foam cord of 3 cm diameter. [min]	≤40

Full cure time (RB024) [h]	24
Heat conductivity coefficient (λ) (RB24) [W/mK]	0,036
Secondary increase in volume (post-expansion) (EN 17333-2:2020) [%]	160 - 200
Dimensional stability (EN 17333-2:2020) [%]	≤ 5
Flammability class (DIN 4102)	B3
Reaction to fire (EN 13501-1:2008)	F
Acoustic insulation (EN ISO 10140-1:2010+A1:2012+A2:2014)	61
Compressive strength [PN-EN 1607:2013-07] [kPa]	≥ 20
Tensile strength perpendicular for frontal surfaces [PN-EN 1607:2013-07] [kPa]	≥ 30
Density (free foaming) [TM 1019:2014] [kg/m ³]	17
Colour	Value
Yellow	+
Conditions of application	Value
Can / applicator temperature (optimal +20°C) [°C]	+10 - +30
Ambient / surface temperature [°C]	+5 - +30

METHOD OF USE

Prior to application, read safety instruction presented at the end of TDS and in SDS.

Surface preparation

- The foam presents adhesion to typical construction materials, such as: brick, concrete, plaster work, wood, metals, styrofoam, hard PVC and rigid PUR.
- The working surface should be cleaned and degreased.
- The surface should be sprinkled with water at application temperature above 0°C.
- Secure surfaces exposed to accidental foam contamination.

Product preparation

- Too cold can should be brought to room temperature, e.g. by immersion in warm water with temperature up to 30°C or leaving it in room temperature for at least 24 h.

Application

- Put on protective gloves.
- Vigorously shake the can (10-20 seconds, the valve facing down) to thoroughly mix the components.
- Screw the applicator onto the valve.
- Working position of the can is "valve facing down".
- Vertical gaps should be filled with foam starting at the bottom and moving up.
- Fill the gap is approximately 1/4 volume of the foam as it expands.
- When sealing doors and windows, keep a minimum distance of 10 mm and a maximum of 30 mm between the opening framing and the door or window frame. Gaps > 30 mm are not recommended. Fill in gaps wider than 30 mm working bottom to top moving from one gap wall to another alternately, creating a zigzag pattern. Gaps > 50 mm are not permitted.
- Should application be interrupted for more than 5 minutes, the applicator nozzle with fresh foam should be cleaned with polyurethane foam cleaner and the can should be shaken prior to application.
- In case of foam drying in the applicator, the applicator tip should be cut off, which enables resuming work with foam.

Works after completion of application

- Immediately after full foam hardening, it should be secured against exposure to UV rays by using e.g. plaster or paints.

Remarks / restriction

- DOOR AND WINDOWS FITTING WITHOUT USING MECHANICAL COUPLING IS FORBIDDEN. LACK OF MECHANICAL COUPLINGS MAY CAUSE DEFORMATION OF THE MOUNTED ELEMENT.
- The curing process is dependent on temperature and humidity. The decrease in ambient temperature within 24 h after the application below the minimum application temperature can affect the quality and / or correctness of the seal.
- Hurried attempts at preliminary treatment may cause irreversible changes in foam structure and its stability and may affect deterioration of foam utility parameters.
- The foam displays lack of adhesion to polyethylene, polypropylene, polyamide, silicone and Teflon.
- Fresh foam should be removed with polyurethane foam cleaner.
- Hardened foam may only be removed mechanically (e.g. with a knife).
- Quality and technical condition of used applicator affect the parameters of final product.
- The foam should not be used in spaces without access of fresh air and poorly ventilated or in places exposed to direct sunlight.
- The manufacturer recommends using strip foam once (at one go), because in case of foam drying in the applicator, the future use may be impossible.

ADDITIONAL INFORMATION

All given parameters are based on laboratory tests compliant with internal manufacturer's standards and strongly depend on foam hardening conditions (ca, ambient, surface temperature, quality of used equipment and skills of person applying the foam).

The manufacturer recommends to commence finishing works after full hardening is completed, i.e. after 24 h.

Producer uses test methods approved by FEICA designed to deliver transparent and reproducible test results, ensuring customers have an accurate representation of product performance. FEICA OCF test methods are available at: <http://www.feica.com> (Our industry -> PU Foam (OCF) -> OCF Test Methods). FEICA is a multinational association representing the European adhesive and sealant industry, including one-component foam manufacturers.

TRANSPORT / STORAGE

The foam maintains its usability within 12 months from manufacturing date, provided that it is stored in original packaging in vertical position (valve facing up) in a dry place in temperature +5°C do +30°C . Storage in temperature exceeding +30°C shortens the shelf life of the product, adversely affecting its parameters. The product may be stored in temperature -5°C, no longer however than for 7 days (excluding transport). Storage of foam cans in temperature exceeding + 50°C or in vicinity of open flame is not allowed. Storage of the product in a position other than recommended may result in jamming the valve. The can cannot be squeezed or pierced even when it is empty.

Do not store the foam in the passenger compartment. Transported only in the trunk.

Detailed transport information is included in the Safety Data Sheet (SDS).

Transport temperature	Foam transport period [days]
< -20°C	4
-19°C ÷ -10°C	7
-9°C ÷ 0°C	10

PACKAGING

Product code	Packaging
73016	Can 750ml

SAFETY AND HEALTH PRECAUTIONS

The information contained herein is offered in good faith based on Producer's research and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information shall not be used in substitution for customer's tests to ensure that Producer's products are fully satisfactory for your specific applications. Producer's sole warranty is that the product will meet its current sales specifications. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. Producer specifically disclaims any other expressed or implied warranty of fitness for a particular purpose or merchantability. Producer disclaims liability for any incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.