

TYTAN PROFESSIONAL 2K Quick Construction PU Foam 400 ml



10040643

Tytan Professional 2K quick assembly foam is a foam that cures under the influence of a chemical reaction between two components, characterized by a homogeneous, fine-cell structure. Recommended for a wide range of applications in the construction industry: assembly, sealing, filling, insulation. It is resistant to mold and fungi as well as to high and low temperatures. After curing, the foam can be cut, sandblasted, plastered or painted.



BENEFITS

- low foam volume increase (postexpansion)
- low cure time
- high foam density
- high mechanical strength
- decreased foam pressure
- decreased B2 foam flammability
- increased foam adhesion to surface
- multiposition does not apply
- standard foam yield

RECOMMENDED USES

- sealing for door fitting
- filling free spaces, cracks, gaps, pipe penetrations
- acoustic insulation
- thermal insulation
- sealing for window fitting
- mounting, soundproofing and isolation of shower trays and bathtubs
- mounting treads and risers of the stairs
- window sills and thresholds insulation

1/5

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TECHNICAL DATA

Parameter (+23°C/50% RH)	Value
Full cure time (RB024) [h]	4
Cutting time (EN 17333-3:2020). The result given for a foam strip of 3 cm diameter [min]	≤15
Density (DIN ISO 845) [kg/m ³]	50
Compressive stresses at 10 % deformation (DIN-53421) [N/cm ²]	15
Dimensional stability (EN 17333-2:2020) [%]	≤3
Secondary increase in volume (post-expansion) (EN 17333-2:2020) [%]	20 - 50
Capacity (free foaming) (RB024) [l]	8 - 10
Elongation at break [%]	10
Tensile strength perpendicular (breaking force) (PN-EN 1607) [N/cm ²]	32
Skin formation time (EN 17333-3:2020) [min]	≤7
Acoustic insulation (EN ISO 10140-1:2010+A1:2012+A2:2014) [dB]	63
Heat conductivity coefficient (PN EN 12667:2002) [W/mK]	0,032
Flammability class DIN 4102-B2	B2
Certification O2	O2
Certification M1	M1
Colour	Value
Blue	+
Conditions of application	Value
Can / applicator temperature (optimal +20°C) [°C]	+10 - +25
Ambient/surface temperature [°C]	+10 - +25

METHOD OF USE

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

Surfaces

- The foam presents ideal 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.
- 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.
- Do not activate the system if the can temperature exceeds +25°C!

Application

- Put on protective gloves.
- Turn the cap on the bottom of the can 5 times in accordance with the clockwise direction.
- Shake the can well (approx. 40 sec.: 20 times in "upside down" position, and 20 times in "valve facing down" position) to thoroughly mix the ingredients.
- Screw the can onto the applicator.
- Working position of the can is "valve facing down".
- Uniform blue color of the foam indicates that the components have been properly mixed (in the absence of a blue color turn the knob on the bottom of the can again 5 times and shake well).
- Vertical gaps should be filled with foam starting at the bottom and moving up.
- Do not fill the entire gap – the foam will increase in volume.
- 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.
- The foam should be used within 5 minutes after activation!!

Works after completion of application

- Foam excess should be removed mechanically after full cure time (4h).
- 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 foam is cured as a result of chemical reaction. Do not use water to wet the working surfaces and foam.
- Especially in lower temperatures (< +15°C), it is recommended to leave the applied foam until it is fully hardened. 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 is a single use product.
- After half-consumption of the foam or if its application is impossible after activation, can with the remaining foam has to be immediately cool down eg. in a bucket of cold water. In this case, re-application of the foam is impossible.
- 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.

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). For joints wider than 3 cm, the parameter values may differ from those declared in the technical data table.

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

Foam retains its expiry date within 12 months as of the manufacturing date provided that it is stored in original packaging in an upright position (valve upwards) in a dry place with temperature between +5°C and +30°C. Storage at temperatures higher than +30°C shortens the product's shelf life, adversely affecting its parameters. It is possible to store the product at -5°C, but no longer than 7 days (excluding transport). It is not allowed to store foam containers above +50°C or near an open flame. Storing the product in a position other than the recommended one may lead to valve blockage. The can must not be crushed or punctured even when completely empty. Do not store foam in the car cabin. Carry in the boot only.

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

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

CATALOGUE DATA

Nominal capacity / volume / size	Colour	Number of pieces per collective package	Index	EAN Code
400 ml	N/A	12	10040643	5902120165797

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.