TYTAN PROFESSIONAL WINS FLEX GUN PU Foam 750 ml

WINS Flex is a highly flexible insulating polyurethane foam with low post-expansion and excellent structure. It is a perfect solution for insulating joinery in the WINS Flex system. It is part of the 3-layer window sealing and insulation system WINS Flex (zone 2). Orange coloured. It is a perfect solution for sealing and insulating the space between jambs and window and door frames made of wood, metal or PVC. Prevents deformation of windows of any sizes. In the WINS Flex system, it fills layer 2, i.e. the insulation zone, and primarily takes over the insulation role in the entire WINS Flex system.

BENEFITS

- high flexibility or flexible return
- low foam volume increase (postexpansion)
- low foam pressure
- decreased B2 foam flammability
- increased foam adhesion to surface
- EMICODE - EC 1 PLUS - very low emissions

RECOMMENDED USES

Installation of windows and doors; installation and assembly work

NORMS / ATESTS / CERTIFICATES

Additional information

- Fulfills the requirements of EMICODE

TECHNICAL DATA

Parameter (+23°C/50% RH)	Value
Certification M1	M1
Certification O2	O2
Capacity (free foaming) (RB024) [l]	43 - 48

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Capacity in gap (The value given for a gap with dimensions 35*1000*35 (width *length *depth [mm])) (RB024) [l]	38 - 43
Secondary increase in volume (post-expansion) (EN 17333-2:2020) [%]	40 - 80
Full cure time (RB024) [h]	1,5
Dimensional stability (EN 17333-2:2020) [%]	≤ 5
Flammability class (DIN 4102)	B2
Deformation at maximum shear force PN-EN 1607:2013 [%]	≥ 15
Water absorbability after 24h at partial immersion PN-EN 1609:2013 [kg/m^3]	1
Dimensional stability, after 24h in temp. +40°C and in relative humidity in the length direction PN-EN 1604:2013 [%]	+/- 3
Dimensional stability, after 24h in temp. +40°C and in relative humidity in the width direction PN-EN 1604:2013 [%]	+/- 3
Dimensional stability, after 24h in temp. +40°C and in relative humidity in the thickness direction (direction of foam growth) PN-EN 1604:2013 [%]	+/- 8
Permanent deformation after compression up to 75% thickness (direction of foam growth) for 22 hours at + 35°C / 50% relative humidity, determined after 30 minutes of relaxation [%]	≤ 25
Permanent deformation after compression up to 75% thickness (direction of foam growth) for 22 hours at + 35°C / 50% relative humidity, determined after 1 minute of relaxation [%]	≤ 23
Permanent deformation after compression up to 75% thickness (direction of foam growth) for 22 hours at + 35°C / 50% relative humidity, determined after 1 hour of relaxation [%]	≤ 22
Permanent deformation after compression up to 75% thickness (direction of foam growth) for 22 hours at + 35°C / 50% relative humidity, determined after 24 hours of relaxation [%]	≤ 15
Tensile strength perpendicular for frontal surfaces (PN-EN 1607:2013-07) [kPa]	≥ 50
Deformation at maximum tensile force (PN-EN 1607:2013-07) [%]	≥ 15
Compressive strength (PN-EN 1607:2013-07) [kPa]	≥ 30
Compressive stress at 10% relative strain (PN EN 826:2013) [kPa]	≥ 12
Permanent deformation after compression to 75% thickness for 22 h, determined after 72 h of annealing [T=+35°C, RH=50%] (PN-EN ISO 1856:2018 method A) [%]	≤ 10

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Adhesion of foam applied at -10°C to the substrate wood [PN-EN 1607:2013] [kPa]	≥ 50
Adhesion of foam applied at -10°C to the ALU substrate [PN-EN 1607:2013] [kPa]	≥ 60
Adhesion of foam applied at -10°C to PVC substrate [PN-EN 1607:2013] [kPa]	≥ 60
Adhesion of foam applied at -10°C to the concrete substrate (PN-EN 1607:2013) [kPa]	≥ 50
Adhesion of foam applied at -10°C to the substrate expanded clay concrete (PN-EN 1607:2013) [kPa]	≥ 60
Adhesion of foam applied at +35°C to the wood substrate [PN-EN 1607:2013] [kPa]	≥ 50
Adhesion of foam applied at +35°C to the aluminum substrate [PN-EN 1607:2013] [kPa]	≥ 60
Adhesion of foam applied at +35°C to PVC substrate [PN-EN 1607:2013] [kPa]	≥ 60
Adhesion of foam applied at +35°C to the concrete substrate (PN-EN 1607:2013) [kPa]	≥ 30
Adhesion of foam applied at +35°C to the substrate expanded clay concrete (PN-EN 1607:2013) [kPa]	≥ 60
Acoustic insulation (EN ISO 10140-1:2010+A1:2012+A2:2014)	≤ 62
Heat conductivity coefficient (PN EN 12667:2002)	0,035
Water vapour transmission coefficient (PN EN 12086:2013-07)	0,09
Water vapor diffusion resistance coefficient (PN EN 12086:2013-07)	8
Thermal resistance (after curing) [°C]	-40 - +90
Colour	**Value**
Orange	+
Conditions of application	**Value**
Can / applicator temperature (optimal +20°C) [°C]	+5 - +35
Ambient/surface temperature [°C]	-10 - +35

METHOD OF USE

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

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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 sprinkle 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.
- Applicator temperature cannot be lower than can temperature.

Application

- Put on protective gloves.
- Vigorously shake the can (10-20 seconds, the valve facing down) to thoroughly mix the components.
- Screw the can onto the applicator.
- Working position of the can is “valve facing down”.
- Vertical gaps should be filled with foam from bottom to top in 100% of the section.
- 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.
- Stream volume and pace of application is controlled by pressure force on the applicator trigger.
- Should application be interrupted for more than 5 minutes, the applicator nozzle with fresh foam should be cleaned with polyurethane foam cleaner. To do so, place the plastic tube supplied with the dispensing applicator packaging on the dispensing applicator outlet to avoid the formation of mist containing the cleaner and applicator residue during cleaning. Then screw the can with the cleaner onto the dispensing applicator and press the trigger until clear liquid flows out of the applicator. The can should be shaken prior to application. In case of screwing the applicator off the can, the valve should also be cleaned with the cleaner.

Works after completion of application

- Immediately after full foam hardening, it should be secured against exposure to UV rays by using Liquid Foil WINS External.
- Clean the dispensing gun thoroughly after the completion of the work. To do so, place the plastic tube supplied with the dispensing gun packaging on the dispensing gun outlet to avoid the formation of mist containing the cleaner and applicator residue during cleaning. Then screw the can with the cleaner onto the dispensing gun and press the trigger until clear liquid flows out of the gun.

Remarks / restriction

- DOOR AND WINDOWS FITTING WITHOUT USING MECHANICAL COUPLING IS FORBIDDEN. LACK OF

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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.
- Especially in lower temperatures, 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 (e.g. temporary brittleness effect, which disappears spontaneously and permanently after full hardening of the product).
- With the decrease of temperature decreases performance and increases the curing foam.
- Open foam package should be used within 1 week.
- 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).

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.

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

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

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.

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