



# TYTAN PROFESSIONAL Subfloor High Yield Adhesive Pro 29oz

TYTAN PROFESSIONAL Subfloor High Yield Adhesive Pro's innovative collapsing gel technology foams up after being dispensed and then collapses into a gel to provide the strongest adhesive with the most yield! It is part of the TYTAN Can vs. Case line of High Yield adhesives, meaning it replaces up to 12 conventional 29oz subfloor adhesive cartridges. It fills small gaps and cracks better than conventional adhesives which helps provide a tight seal, level floor, and protects against squeaks. You will be able to cut your installation time in half and use up to 50% less fasteners compared to installing without adhesive. You won't only save time and money, but the long barrel TYTAN PRO Applicator will also reduce the strain on your back, knees, and hands compared to traditional adhesive applicators. It may even be used on frozen lumber when the air temperature is within the recommended range. It cures at a similar rate compared to traditional adhesives and should be used in conjunction with mechanical fasteners. It provides a strong bond to lumber, treated lumber, OSB, plywood, drywall, paneling, joists, trusses, decking, concrete, metals, masonry, and other typical flooring & wall substrates.



## FEATURES:

- 1 can replaces 12 28 oz cartridges.
- Collapsing gel formula – expands to prevent squeaks.
- Conforms to ASTM D-3498 and APA-AFG-01.
- Can be used in temperatures as low as 23°F.

## APPLICATIONS

BONDING SUBFLOOR AND DECK IN WOOD FRAME CONSTRUCTION

## BENEFITS

▲▲▲ ADHESION TO SURFACE
▲▲ ADHESIVE YIELD
■ ADHESIVE PRESSURE
■ ADHESIVE VOLUME INCREASE (POSTEXPANSION)
■ ADHESIVE FLAMMABILITY
- ADHESIVE MULTIPOSITIONING
▲▲▲ high; ▲▲ increased; ■ normal; ▼▼ decreased; ▼▼▼ low; - no application



## APPLICATION CONDITIONS

Can/ applicator temperature [°C] (optimal +20°C)	23 ÷ 95 [°F] -5 ÷ 35 [°C]
Ambient/ surface temperature [°C]	23 ÷ 95 [°F] -5 ÷ 35 [°C]

## DIRECTIONS FOR USE

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

### 1. SURFACE PREPARATION

Clean the surface of oil, dust and greases. Use below 23°F is not recommended. Protect the area being sprayed with tape, cloth, plastic, or other material.

### 2. PRODUCT PREPARATION

Shake can vigorously for 30-45 seconds. Remove protective cap, invert can, and screw the can firmly onto the TYTAN dispensing gun – do not over tighten. Maintain the can in upside-down, inverted position during application of the adhesive. Point gun in safe direction and slowly pull trigger to test dispensing flow rate. Adjust control knob on gun handle to achieve the desired application flow.

### 3. APPLICATION

Slowly apply the adhesive to desired location. If panels butt together, apply two beads side by side. A serpentine bead should be used when possible. For best results, apply subfloor panels between 3-5 minutes after dispersing adhesive. Do not wait more than 10 minutes to apply panels. Firmly place panels onto adhesive and hold. Secure the substrate with mechanical fasteners. Panels will adhere within 15 minutes. Fully cures within 5 days.

### 4. WORKS AFTER COMPLETION OF APPLICATION

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

Use TYTAN Foam Cleaner's spray nozzle to spray any uncured foam off the end of the gun applicator nozzle into a trash can or a throw away material. Remove the used foam canister from the gun applicator and spray all external uncured foam with TYTAN Foam Cleaner. Screw the TYTAN Foam Cleaner canister onto the gun and spray the cleaner through the gun to clean uncured foam out the inside of the gun barrel. Leave the TYTAN Foam Cleaner canister screwed onto the gun applicator. Tighten the control knob on the guns handle so no air can enter the barrel of the gun. Air entering the barrel of the gun for more than 2-3 minutes will decrease the efficiency and life of your gun.

### 5. REMARKS / RESTRICTIONS

BONDING FLOORS AND FLOOR COVERINGS WITHOUT MECHANICAL CONNECTORS IS NOT ALLOWED. NO MECHANICAL CONNECTORS MAY CAUSE DEFORMATION OF MOUNTED COMPONENT OR ITS FALL.

- 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 adhesive structure and its stability and may affect deterioration of adhesive utility parameters.
- Open package should be used within 1 week.
- The adhesive displays lack of adhesion to polyethylene, polypropylene, polyamide, silicone and Teflon.
- Fresh adhesive should be removed with polyurethane foam cleaner.
- Hardened adhesive may only be removed mechanically (e.g. with a knife).
- Quality and technical condition of used applicator affect the parameters of final product.
- The adhesive should not be used in spaces without access of fresh air and poorly ventilated or in places exposed to direct sunlight.

## TECHNICAL DATA

Color	
whiteish tan, yellowish tan, amber	

Parameter (+23°C/50% RH) <sup>1)</sup>	Value
Yield (linear yield of 1,2 cm width bead) 29 oz can cu [ft]	500
Open time [min] (TM 1014-2013**)	≤ 20
Full cure time [h] (RB024)	48
Secondary increase in volume (post-expansion) [%] (TM1010-2012**)	0
Cure [h]	In 8 h, fully cured in 48
Compression strength [PSI]	14
Tensile strength [PSI]	61
Shear strength-dry lumber [PSI]	451

<sup>1)</sup> 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).

\*\*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-technology-ocf>. FEICA is a multinational association representing the European adhesive and sealant industry, including one-component foam manufacturers. Further information at: [www.feica.eu](http://www.feica.eu)

## TRANSPORT / STORAGE

Transport temperature	Transport period [days]
< -4°F	4
-3°F ÷ 14°F	7
15°F ÷ 32°F	10

The adhesive maintains its usability within 18 months from manufacturing date, provided that it is stored in original packaging in vertical position (valve facing up) in a dry place in temperature 41°F do 86°F. Storage in temperature exceeding 86°F shortens the shelf life of the product, adversely affecting its parameters. The product may be stored in temperature - 41°F, no longer however than for 7 days (excluding transport). Storage of foam cans in temperature exceeding 122°F 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 Material Safety Data Sheet (MSDS).**

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.