WhiteTeq
PU Foam

Technical Datasheet
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PRODUCT FEATURES

UniBond Trade Whiteteq is a new generation white polymer foam, which is based on purified ingredients to achieve superior performance. Careful selection of ingredients delivers convenient final curing parameters and gives WHITETEQ foams its characteristic ice-white colour, superb structure and higher resistance toward UV radiation.

Cured foam excels with a unique QUATTRO – 4x more dense structure providing excellent thermal and sound insulation properties. WHITETEQ technology contributes to low curing pressure and high flexibility of the foam. This ensures long-term insulation effectiveness by compensating the movements of the seal resulting from e.g. thermal expansion. The perfect ratio of open and closed cells and mechanical strength makes it the perfect product for demanding insulation applications.

UniBond Trade Whiteteq has excellent durability over the time, featuring up to 10 times higher resistance to UV radiation in comparison with standard foams. It has excellent adhesion on most building materials like wood, concrete, stone, metal etc. It is easily usable and applicable with traditional gun foam applicator.
Use the applicator tested and approved by producer of the can for best working experience!

APPLICATIONS

- Insulation of window and door frames
- Sealing of openings in roof constructions and insulation materials
- Insulating of wall panels & roof tiles
- Filling of cavities around pipes and many more

PROCESSING

Surface Preparation
Substrates must be stable, clean and free of substances likely to impair adhesion (oil, fat, rust, loose particles etc.). For better adhesion, moisturize mineral or porous substrates (brickwork, concrete, limestone) slightly with water spray before application. Moisturization of the non-porous surfaces is not recommended. Mask off adjacent areas with foil. The surfaces foam is applied to can be moist, but not frosted or iced.

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PROCESSING

Application Method
Shake the can vigorously before use for 15 - 20 times. Mixing of ingredients is improved and contributes to foam quality if the can is shaken in upside down position for at least 30 sec.

Remove the plastic cap from the can and screw the can tightly onto the gun. When working with the gun always keep the can upside down. The outflow rate of the foam is controlled by pressing gun trigger.
Dispense the foam sparingly to avoid excess overflows.

Repeat shaking regularly during application.

It is not recommended to remove the can from the gun before it is completely empty. Shake the new can vigorously before attaching to the gun. Unscrew the empty can and replace it immediately to ensure that there is no air left in the gun.
If you do not want to replace the can, remove the foam from the gun using PU foam cleaner. Hardened foam can only be removed mechanically.

Yield of the cured foam largely depends on working conditions - temperature, air humidity, available space for expanding, etc. At minus temperatures, the expansion of foam is lower and full curing takes longer time.

Product does not contain CFC-propellants.

TEMPERATURES

Application
Working temperature: -5°C to +35°C

Can temperature: +5°C to +30°C
Can has preferably to be stored for at least 12 hours in room temperature before the application.

Service
Temperature resistance: -40°C to +80°C, short term peaks up to +100°C

STANDARDS

EN 11925
Reaction to fire: class F

CHARACTERISTICS

Foam density TM 1002:2014	17 - 21 kg/m^3
Tack free time TM 1014:2013	6 - 7 min
Cutting time TM 1005:2013	35 – 40 min
Curing pressure TM 1009:2013	< 3 kPa
Post expansion HENK-PU-14.1	40 - 90 %
Dimensional stability TM 1004:2013	< +/- 5 %
Maximal joint width TM 1006:2013	5 cm Test conditions: + 5°C 4 cm Test conditions: - 5°C
Shear strength | Elongation at break TM 1012:2015	80 - 90 kPa | ca. 100%
Compression strength 10% compression TM 1011:2013	20 - 45 kPa
Water absorption, partial immersion 24h EN 1609:2013, method A	≤ 2 kg/m²
Water absorption 28 day EN 12087	max 10 %
Water tightness PN-EN 1027:2001	No leakage at 1200 Pa
Air permeability PN-EN 1026:2001	0,02 m^3/(h·m·daPa$^{2/3}$) Test conditions: 1020 Pa
Sound insulation EN ISO 10140	63 dB (2 cm joint)
Cured Foam Thermal conductivity DIN EN 12667:2001	≥ 0,032 W/mK Test temperature: +10 °C.
Yield per can TM 1003:2013 (with PP/T applicator)	750/1000 ml: up to 33 L

All measurements on norm. climate (+23 ± 2 °C | RH 50 ± 5%) unless indicated otherwise.

SAFETY

Safety Advice
Consult the Material Safety Data Sheet (mymsds.henkel.com) for UniBond Trade Whiteteq.
www.unibond-trade.co.uk

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IMPORTANT ADVICE

Handling
Protection from accidental rolling and unintended release is a must! Transportation of odd cans by passenger car: leave the container wrapped in a cloth in the trunk, never in the passengers' compartment.
Check separate Storage and Handling Instructions.

Storage
Preferably store can with the valve directed upwards.

Shelf Life
Best before 15 months. For longest shelf life avoid storage above +25°C and below +5°C (up to – 20 °C for a short period).

PACKAGING

UniBond Trade Whiteteq is supplied in 750ml cans.

DISPOSAL

Product and packaging disposal
Dispose of waste and residues in accordance with local authority requirements (please refer to Safety Data Sheet for more information).

SUBSTRATE COMPATIBILITY

UniBond Trade Whiteteq has excellent adhesion on most building materials like wood, concrete, stone, metal etc.

LIMITATIONS OF USE

Despite significantly higher UV resistance, the cured PU has to be protected from long-term UV radiation to preserve the full insulation capacity. Protection may be in form of painting or applying a top layer of sealant, plaster, mortar, or other type of covering.

Limitations to joint maximal width exist in regard of ambient temperature and humidity levels.

In dry conditions (during winter time, in rooms with central heating etc.), in order to get best foam structure and foam properties it is recommendable to fill gaps and joints in several layers by the application of smaller foam strings (up to 5 cm thickness).

At very dry and cold conditions (below +5°C), the foam might be brittle for some period after the hardening. This brittleness is a temporary effect and disappears after a while or by warming up. Once the foam is flexible, it does not get brittle again.

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