
## Technical data sheet
## TDS 05.22DEU MULTIKLEBER

**Product:**
A single-component, multi-purpose polyurethane adhesive specially developed for bonding and securing tiles and construction slabs such as Light-Board and similar systems, lightweight cladding panels and insulation material made of polystyrene, hard polyurethane boards, as well as plaster, cement-fiber boards, etc., in the dry construction system. Ideal for bonding expanded and extruded polystyrene, polyurethane and lightweight masonry materials - lightweight concrete, porous concrete (Ytong, Porfix, Siporex etc.), hollow bricks, wood and porous stone.

- **Properties**
- Fast curing, dimensionally stable
- Uniform structure, excellent sound and thermal insulation
- Excellent adhesion to concrete, plaster, masonry, wood, polystyrene, PVC, etc.

**Use:**

- Brick core of apartment buildings,
- Sound partitions between units, etc.;
- Construction of landscaping structures – fences, gazebos, and more demanding applications;
- Gluing lightweight structures made of hollow bricks, concrete and porous concrete, shaped brick;
- Gluing plaster boards and cement-fiber boards;
- Gluing light insulating materials to a wide range of substrates;

**Packaging:**
-Pistol tube 750 ml,
-Squeeze tube 825 ml

**Color**
-Yellow

| Technical specifications | | | |
|---|---|---|---|
| Basic | - | polyurethane | |
| Density | kg/m$^3$ | 15–25 | according to ISO 7390 |
| Insulation value | mW/m | 30–35 | according to DIN 52612 |
| Heat resistance | °C | –40 / +90 | after curing |
| Application temperature | °C | +5 / +35 | optimal +15 až +20 |
| Curing time Surface. peels | min. | ≈ 8–12 | at 23 °C / 55 % Relative humidity |
| Cuttability | min. | 40–50 | |
| Dimensional stability | % | -5%<DS <0 % | |
| Diffusion resistance factor | - | Approx 28 | |
| Equivalent diffusion | m | 0,446 | |
| Adhesion to polystyrene | MPa | ~ 0,14 | to white and gray EPS |
| Adhesion to concrete | MPa | ~ 0,10 | to dry concrete without penetration |
| | MPa | ~ 0,16 | pre-penetrated concrete properly dry |
| Fire reaction class | - | F | EN 13 501-1 |
| Adhesive width during | mm | 30–40 | |
| Yield of a pistol can | m | 45–58 | according to ø 3-4 cm PUR Adhesive |
| Yield of the tubular can | m | 35–46 | according to ø 3-4 cm PUR Adhesive |

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**Restrictions**

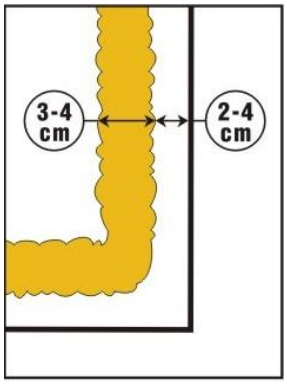
We do not recommend for underwater applications and in confined spaces, for zero adhesion to PE, PP, silicone, Teflon and greasy substrates. We do not recommend heating up the foam or substrate at low temperatures, or to apply to substrates coated with frost. **Do not apply to wet surfaces!** After storing at low temperatures, we recommend acclimatizing the tube at room temperature for 1 hour before use. **Do not apply under strong winds!**

**Surface**

Prime the surface, such as brick masonry or concrete, with S2802A before gluing. Bricks or blocks must be free of dust, perhaps prime the masonry. The primer coating takes about 2-4 hours to dry. A dusty surface reduces the adhesive of the bonding foam. Do not dampen a properly dried and primed surface! Although the dampness of the substrate increases and accelerates expansion, it also deteriorates the regular structure of the foam, leading to less firmness and larger pores. Keep equipment and other surfaces exposed to dirt covered.

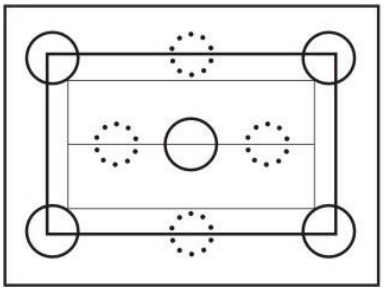
**Instructions**

Screw into the applicator gun with NBS threads, or install the application tube onto the valve. Shake well (at least 30 times). Set the arresting screw to the required dosage.




**a) insulation and other boards**

When gluing polystyrene boards, apply the foam around the perimeter of the boards at intervals of 2-4 cm from the edges. Add at least one strip to the pattern in the middle of the board in the direction of its longest dimension. The recommended diameter of the bead for bonding insulating components is about 3-4 cm depending on the unevenness of the substrate. Attach the board to the wall, about 2 minutes after applying the foam, press and align using a long batten. The flatness of the surface of the boards can now be corrected within about 20 minutes after gluing them, depending on the ambient temperature (air and substrate).
Two hours after gluing, it is possible to proceed to the next construction step.
For gluing plasterboard, we recommend extending the interval between the application of the polyurethane adhesive and firmly pressing the board to the glued surface by 4-8 minutes. Then press the board onto the surface for 30 - 60 seconds. Secure difficult and less stable boards during a period of about 60 minutes.



**b) Masonry walls of hollow bricks and aerated concrete blocks**

Suitable for non-load-bearing masonry walls and partitions. Remove dust from bricks or blocks, or do not prime. For every 10 cm wide wall, a 3-4 cm wide strip of polyurethane adhesive should be applied. The joints between bricks can be filled with the glue.

**Attention:**

Clean uncured foam with a polyurethane foam cleaner; cured foam can only be removed physically. Wear protective gear during the application. Protect surfaces from stains created by paper or foil. Polyurethane foam cleaner must not come into contact with polystyrene; it dissolves very quickly.

Cured polyurethane foam is not resistant to UV radiation. This resistance is dependent on the time of exposure to sunlight (approximately 14 days to 3 months). After this time UV radiation, together with other weather effects (rain, frost, etc.), disrupts the structure of the polyurethane foam.

**Cleaning**

Material: Uncured foam - Zwaluw PU foam cleaner
Hands: regeneration cream for the hands, soap and water.

**Safety**

See «Safety Data Sheet 05.22».

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**Updates** Updated: 1 March 2012 Prepared: 22 December 2010

*This product conforms to specifications during the warranty period. Information and data provided here are based on our own experience, research and objective testing and we presume they are reliable and accurate. The firm, however, cannot be aware of all the possible uses for this product, or the methods used for its application, and therefore we do not provide a guarantee under any circumstances over and above the information that relates to the suitability of our products for certain uses and procedures. All the data given above are of a general nature. Every user is obligated to verify the suitability of use by means of own testing. For more information, please contact our engineering division.*