



# Technical Data Sheet



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Ref: UC7000  
Issued: 11/03/25  
Number of pages: 4

## UniBond No More Nails Waterproof Cartridge



### CHARACTERISTICS

- Instant Tack
  - 125 kg/m<sup>2</sup> initial tack\*
  - Good adhesion on many substrates
  - Correctable for a few minutes
  - No stringing or dripping
  - Moisture curing
  - Non-slumping
  - Interior and exterior use
  - Multiple materials
  - Porous- and non-porous surfaces
  - Overpaintable and sandable once cured <sup>1</sup>
  - Isocyanate-free
  - Solvent-free
  - Free of phthalate plasticizers
  - Works on wet surfaces
  - No shrinkage
  - Sensitive materials
  - Flexible bonding
- \*Henkel internal laboratory method

### APPLICATION FIELD

- UniBond No More Nails Waterproof is a One-part and flexible multipurpose assembly adhesive for indoor and outdoor applications based on Flextec-Technology.
- It is multiple-substrate compatible including Brick, Ceramic, Concrete, Hardboard, Plasterboard, Plywood, Stone<sup>3</sup>, MDF, Wood, Metal<sup>4</sup>, UPVC, Glass, Plastics<sup>5</sup>, painted surfaces<sup>1</sup>, Mirrors<sup>6</sup>.
- Suitable for bonding absorbent and non-absorbent substrates.
- Suitable for bonding natural stone (thickness of at least 10mm)<sup>3</sup>.

### STANDARDS

- GEV EMICODE®: EC 1 PLUS (very low emissions)
- VOC emission class (France): A+



## INSTRUCTIONS FOR USE

### Pretreatment

The surfaces to be bonded must be clean, free from oils, grease, dust and loose particles. Standing water on absorbent substrates should be removed first.

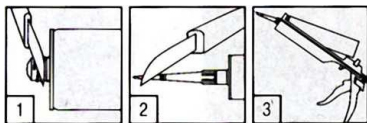
In case of soiled surfaces remove the soiling with an appropriate solvent or sand down surfaces and clean afterwards from dust. Use acetone, spirit, isopropanol or special cleaners to remove residues of oils or grease. Before application, mask off the adjacent area with foil or tape, if necessary. Check paint or coatings are firmly attached, if not remove it.

In cases of unknown materials or critical applications adhesions tests are recommended or contact our Technical Service.

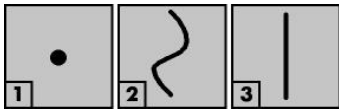
Curing of the adhesive requires the intake of a small amount of moisture (either from the atmosphere and/or from the substrate).

### Application

(1) Cut off tip of the cartridge above the screw thread. (2) Screw on plastic nozzle and diagonally cut off the tip of the nozzle. (3) Place cartridge into gun.



Apply adhesive onto one of the surfaces: In spots (1) in order to smooth uneven surfaces, in wave-like form (2) for higher initial tack with wide surfaces or in straight beads for smaller surfaces (3). In case of outdoor use, apply **vertical beads**.



Release the gun trigger after application to prevent the adhesive from running out of the cartridge.

Use hand pressure to set the elements to be bonded into position. If necessary (e.g. heavy items and items under tension), use adhesive tape, wedges, or props to hold the assembled elements together for the initial hours (at least 24 hours) of curing. An incorrectly positioned element can be easily unfastened and repositioned in the first few minutes after application. Apply pressure again. Minimum thickness of the adhesive layer should be 1 mm to ensure ventilation.

Important in case of 2 non-absorbent surfaces: Adhesive must not form continuous areas as contact with air/moisture is necessary for adhesive setting. Make sure the adhesive strands do not merge!

### After curing:

When fully cured No More Nails Waterproof can be painted, water-based acrylic paints are particularly suitable.

Due to the large number of coatings on the market, it is recommended to test the compatibility of a coating product before use. Oxygen-curing paints (e.g. alkyd-resin) show longer drying/tackiness. 2K-Epoxy paints show bad levelling property.

### Cleaning tools



Remove uncured spots of adhesive at once, clean tools directly after use with a dry cloth and afterwards with commercial solvents, alcohol or cleaning petrol, do not use water.

The cured No More Nails Waterproof is insoluble in all solvents and can only be removed mechanically with appropriate tool (scraper).

#### **Notes on application/limitations**

<sup>1</sup>It is recommended to test the compatibility with the coating before use if No More Nails Waterproof has contact with painted surfaces or if No More Nails Waterproof is overpainted after application. Paints which crosslink in the presence of oxygen can show longer drying times, tackiness or colorations, especially in case of alkyd resin paints. Only overpaint when product is fully cured.

<sup>2</sup>In case of outdoor applications make sure that the cured adhesive layer is not exposed to direct sunlight / UV radiation. Not suitable for applications with water pressure or permanent water immersion, e.g. in swimming pools, water pipes. Do not use No More Nails Waterproof as a sealant. Pre-test to determine bonding suitability. Colour deviations may occur e.g. due to exposure to chemicals or high temperatures. However, a change in colour does usually not affect adversely the technical performance or the durability.

<sup>3</sup>Do not use No More Nails Waterproof on bituminous substrates or on building materials which might bleed oils, plasticizers or solvents which could attack the adhesive. Bonding of natural stones (e.g. marble, granite) is only recommended if the natural stone has a thickness of at least 10 mm. Not recommended for sealing applications on natural stones.

<sup>4</sup>Do not use No More Nails Waterproof in contact with copper and brass.

<sup>5</sup>Not suitable for bonding polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE), or polyvinyl chloride (PVC).

<sup>6</sup>Product may only be used for mirror bonding if the mirror coating and the protective lacquer complies with EN 1036-1. In case of unknown mirror qualities please ask mirror producer for an approval.



## TECHNICAL DATA

Raw material	Flextec®-Polymer (Moisture curing silane modified polymer (SMP) - cures by reaction with atmospheric humidity.)
Appearance	Paste, off white
Odour	Alcohol
Application temperature	+5°C up to +40°C (substrate and ambient)
Consistency	Non-slumping paste
Density (ISO 2811-1)	Approx. 1,65 g/cm <sup>3</sup>
Skin formation time (23°C, 50% r. h.)	Approx. 15 minutes (23°C, 50% r.h.)
Heat resistance	-30°C up to +80°C, 100°C for short periods
Open time	Approx. 15 Min
Gap bridging capacity	Up to 20 mm
Initial tack	Approx. 10-15 g/cm <sup>2</sup>
Shore A hardness (ISO868)	Approx. 60
Tensile strength (DIN 53504)	Approx. 2,0 N/mm <sup>2</sup>
Final Strength (DIN EN 205)	Approx. 2,5 mm <sup>2</sup> (lap-shear strength, wood/wood)
Elongation at break (DIN 53504)	Approx. 80%
Curing Speed 23°C, 50% r. h., bead 20x10mm)	Approx. 1,5 mm / 24 h (23°C, 50% r.h., bead 20x10mm)
Coverage on flat surfaces	Approx. 11m using a 5mm bead or approx. 300 g/m <sup>2</sup>
Shrinkage	No shrinkage
Shelf life	12 months  From date of production if stored in unopened original cartridges, in dry conditions and protected from direct sunlight at temperatures between +5°C and 25°C



## GENERAL INFORMATION

### Surfaces

The product is suitable for many types of construction materials: Brick, ceramic, concrete, hardboard, plasterboard, plywood, stone, MDF, wood, some metals, UPVC, glass, plastics, painted surfaces, mirrors etc.

No adhesion to PE, PP, PTFE (Teflon®), PMMA (acrylic glass). In cases of unknown materials or critical applications adhesion tests are recommended or contact our Technical Service.

On plastics and paints the adhesion properties should be tested before use. In cases of unknown materials or critical applications adhesion tests are recommended or contact our Technical Service.

### Storage

Shelf life:

Cartridges: 12 months from date of production if stored in unopened original cartridges, in dry conditions and protected from direct sunlight at temperatures between +5°C and 25°C.

### Chemical resistance

The product is not recommended for applications with permanent contact with chemicals.

### Packaging

450g PE cartridge

## HEALTH AND SAFETY

Before using the product please see related Material Safety Data Sheet that is available on request.

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

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