



# Technical Data Sheet



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## UniBond No More Nails All Materials Heavy Objects Cartridge

One-part and flexible, multipurpose assembly adhesive for indoor and outdoor applications based on Flextec®-Technology.

### **CHARACTERISTICS**

- Very high instant Tack
- Adjustable
- No stringing
- Moisture curing
- Non-slump
- Interior and exterior use
- Sensitive materials
- Flexible bonding
- Porous and non-porous surfaces
- Isocyanate-free
- Solvent-free
- Gap filling
- Sound and vibration damping
- Weather and UV resistant
- Bonds to damp surfaces
- No shrinkage

### **APPLICATION FIELD**

- UniBond No More Nails All Materials Heavy Objects is multiple-substrate compatible including Brick, Ceramic, Concrete, Hardboard, Plasterboard, Plywood, MDF, Wood, Metal, UPVC, Glass, Plastics\*, painted surfaces\*, Mirrors\*\*.
- Suitable for most common building materials except natural stone, PE, PP, PTFE, acrylic glass, plasticized PVC, copper and brass. With coated substrates, a pre-check of product suitability or professional advice is recommended. Bonds to wet surfaces, however pooled water should be removed. Not recommended for areas of permanent water immersion or constant damp. Not overpaintable. Heavy or distorted items may require additional fixings.
- seam seals in metallic and wooden construction (no movement)
- seam seals in ventilation & air-conditioning ductwork (no movement)

\*Pre-test to determine suitable bonding, because of many different substrates. The adhesion of UniBond No More Nails All Materials Heavy Objects on polystyrene foam (Styrofoam) can be significantly improved, by primer with diluted wood glue. Mix wood glue about 1 : 1 with water and spread onto the substrate. After drying of the primer, PL Premium Grab Adhesive High Tack are ready to apply.

\*\*Use mirrors acc. EN 1036-1, ask for technical advice for large-scale objects.



## INSTRUCTIONS FOR USE

### Pretreatment:

The surfaces to be bonded must be clean, free from oils, grease, dust and loose particles. Pooled water should be removed.

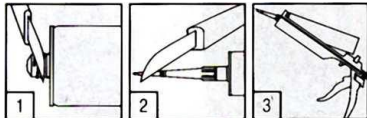
Check paint or coatings are firmly attached, if not remove it.

In cases of unknown materials or critical applications adhesion pre-tests are recommended.

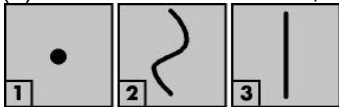
### Application:

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

Because of the very high tack formula, the product has a high resistance to extrude. Therefore cut nozzle sufficient (min. 8mm diameter) or in a V-shape.



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



Release gun after appliance to stop adhesive flow.

Firmly fix items to be bonded into position with a twisting action. If necessary (e.g. heavy items and items under tension), support the items until cured. Items can be adjusted after application. 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 beads do not merge!

### For filling applications:

Maximum joint width: 20mm.

Firmly extrude UniBond No More Nails All Materials Heavy Objects into the gap and make sure that it is a full contact with the sides of the gap. Fill the gap and avoid air entrapment. Product should be tooled firmly against the gap sides to ensure good adhesion.

### Cleaning:

Clean tools and application equipment immediately using white spirit or ethanol. Cured product can only be removed mechanically (e.g. with a knife or a scraper).



## **TECHNICAL DATA**

<b>UniBond No More Nails All Materials Heavy Objects</b>	
Raw material	Flextec®-Polymer (moisture curing silane-terminated polymer (STP))
Appearance	Off white
Odour	Mild, Alcohol
Application temperature:	+5°C to +40°C (substrate and ambient)
Consistency	Non-slumping paste
Density (ISO 2811-1)	~1,65 g/cm <sup>3</sup>
Skin formation time (23°C, 50% r. h.)	~ 5 minutes
Open time	~ 15 minutes
Curing speed (23°C, 50% r. h., bead 20x10mm)	~ 2 mm / 24 hours
Initial tack	~ 40 g/cm <sup>2</sup>
Gap bridging capacity	Up to 20 mm
Shelf life	Cartridge 15 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
<b>UniBond No More Nails All Materials Heavy Objects</b>	
Shore A hardness (ISO868)	~ 60
Modulus 100% (DIN 53504, S2)	~ 1,3 N/mm <sup>2</sup>
Elongation at break (DIN 53504, S2)	~ 90-100%
Tensile strength (DIN 53504, S2)	~ 1,3 N/mm <sup>2</sup>
Final Strength (DIN EN 205)	~ 1,5 N/mm <sup>2</sup> (lap-shear strength, wood/wood)
Service temperature	-30°C up to +80°C, 100°C for a short period
Coverage on flat surfaces	~ 11m using a 5mm bead or~ 300 g/m <sup>2</sup>
Shrinkage (ISO 10563)	~ -3 %



## LIMITATIONS

Do not use UniBond No More Nails All Materials Heavy Objects as a sealant, on bituminous substrates or on building materials, which might bleed oils, plasticizer or solvents, which could attack the product.

Not suitable for applications with water pressure or permanent water immersion/constant damp, e.g. in swimming pools below the water line, water pipes.

Will not bond to PE, PP, PTFE, PMMA (Acrylic), plasticized PVC, copper and brass.

Pre-test coated substrates to ensure suitability of use

UniBond No More Nails All Materials Heavy Objects cannot be overpainted

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 and large projects, please ask mirror producer for a recommendation.

### Storage:

Store in cool dry conditions between +10°C and 25°C. The Product is not damaged by freezing, but avoid high temperature-changing during storage.

Packaging  
440g 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. f.

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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