Technical Data Sheet

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UniBond No More Nails Waterproof Cartridge

CHARACTERISTICS

- Instant Tack
- 100 kg/m^2 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
- Flexible bonding
- Overpaintable (water-based paints only)
- Isocyanate-free
- Solvent-free
- Free of phthalate plasticizers
- Adheres to damp surfaces (Provided surfaces can dry)
- No shrinkage
- Sensitive materials

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, MDF, Wood, Metal, UPVC, Glass, Plastics*, painted surfaces*, Mirrors**.
- Suitable for bonding absorbent and non-absorbent substrates. Except PE, PP, PTFE, acrylic glass, plasticized PVC, copper and brass.
- Suitable for bonding natural stone (thickness of at least 10mm).

*Pre-test to determine suitable bonding, because of many different substrates. The adhesion of UniBond No More Nails Waterproof on polystyrene foam (Styrofoam) can be significantly improved, by precoat with diluted wood glue. Mix wood glue about 1 : 1 with water and spread onto the substrate. After drying of the precoat, UniBond No More Nails Waterproof are ready to apply.

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

STANDARDS

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

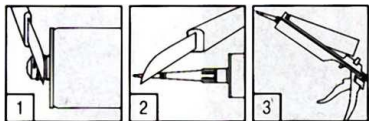
INSTRUCTIONS FOR USE

Pretreatment
Ensure surfaces to be bonded are clean and free of dust, grease or oil. Pooled water should be removed. Substrates must be stable. Remove any contaminants likely to impair adhesion. 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.

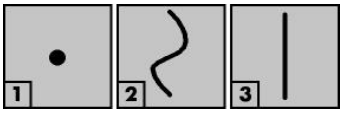
Curing of the adhesive requires the intake of a small amount of moisture (either from the atmosphere and/or from the substrate).

Application
Cut off the tip of cartridge cap above the thread (1). Screw on the plastic nozzle and diagonally cut off the tip of the nozzle (2). Insert the cartridge into a cartridge gun (3).



Opening the plastic cartridge

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



Application of the adhesive

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 UniBond No More Nails Waterproof can be painted, water–based acrylic paints are particularly suitable. 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
Fresh adhesive may be cleaned with a cloth soaked in a solvent (alcohol or white spirit).
Once fully cured, No More Nails waterproof can only really be removed by mechanical means (i.e. a chisel or similar tool).

Limitations
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 fully cured products.

In case of outdoor applications make sure that the cured adhesive layer is not exposed to direct sunlight / UV radiation.

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.

Do not use No More Nails Waterproof in contact with copper and brass.

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.

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.

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

Uncured product	
Composition	Flextec®-Polymer (Moisture curing silane modified polymer (SMP) - cures by reaction with atmospheric humidity)
Appearance	Paste, off white
Odour	Mild alcohol
Application temperature	+5°C to +40°C (substrate and ambient)
Consistency	Non-slumping paste
Density (ISO 2811-1)	Approx. 1,65 g/cm³
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
Curing speed	Approx. 1,5 mm / 24 hours (23°C, 50% r.h., bead 20x10mm)
Gap bridging capacity	Up to 20 mm
Initial tack	Approx. 10-15 g/cm² (100 – 150 kg/m²)
Cured product	
Shore A hardness (ISO 868)	Approx. 60
Tensile strength (DIN 53504)	Approx. 2,0 N/mm²
Final Strength (DIN EN 205)	Approx. 2,5 N/mm² (lap-shear strength, wood/wood)
Elongation at break (ISO 37, Type 2)	Approx. 80%
Curing Speed 23°C, 50% r. h., bead 20x10mm)	Approx. 1,5 mm / 24 h
Coverage on flat surfaces	Approx. 7m using a 5mm bead or approx. 300 g/m²
Shrinkage	No shrinkage

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 adhesions 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 18 months from date of production if stored in unopened original tubes, in dry conditions and protected from direct sunlight at temperatures between +5ºC and 25ºC.

Chemical resistance
The product is not recommended for applications with permanent contact with chemicals

Packaging
280 ml PE cartridge (95% recycled)

HEALTH AND SAFETY

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

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