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Technical Data Sheet – Pattex NMN Polymer



Technical Data Sheet
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Pattex No More Nails High Tack 440g x 12

EAN code: 600 109 135 2409

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

CHARACTERISTICS

- Very high instant Tack
- Correctable for a few minutes
- No stringing
- Moisture curing
- Non-slumping
- Interior and exterior use
- Multiple materials
- Sensitive materials
- Flexible bonding
- Porous- and non-porous surfaces
- Overpaintable and sandable once cured
- Isocyanate-free
- Solvent- free
- Gap-bridging
- Sound and vibration damping
- Weather and aging resistant
- Works on wet surfaces
- No shrinkage



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APPLICATION FIELD

- PL 70 high tack is multiple-substrate compatible including Brick, Ceramic, Concrete, Hardboard, Plasterboard, Plywood, Stone, MDF, Wood, Metal, UPVC, Glass, Plastics*, painted surfaces*, Mirrors**.
- All absorbent and non-absorbent substrates are suitable. Except PE, PP, PTFE, acrylic glass, plasticized PVC, copper and brass. With coated substrates, a check of product suitability or professional advice is recommended. Wet surfaces are possible if it has the possibility to dry. Not recommended for permanent water immersion.
- seam seals in metallic and wooden construction (no movement)
- seam seals in ventilation & air-conditioning ductwork (no movement)
- Gluing of natural stones (e.g. windowsill –seat made from marble, granite) is possible, if the natural stone has a thickness of min. 10 mm.

*Pre-test to determine suitable bonding, because of many different substrates. The adhesion of PL 70 HT 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, PL 70 HT are ready to apply.

**Use mirrors acc. DIN 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 and should be dry. Standing water on absorbent substrates should be first removed.

In case of soiled surfaces remove the soiling with an appropriate solvent or sand down surfaces and clean afterwards from dust. Before application, mask-off the adjacent area with foil or tape, if necessary. Check paint or coatings are firmly attached, if not remove it.

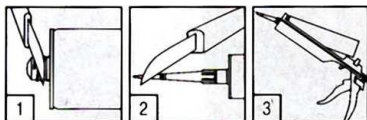
In cases of unknown materials or critical applications adhesions tests are recommended or contact our Technical Service.

Curing of the adhesive requires the intake of a small amount of moisture (either from the atmosphere and/or from the substrate). Adhesion on many smooth surfaces can be improved with wash-primers like "Haftreiniger" P 819 (short code: L819H), or Terostat 450 (IDH 642 844).

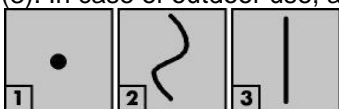
Application:

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 strands for smaller surfaces (3). In case of outdoor use, apply vertical strands.



Release gun after appliance to stop adhesive flow. (not valid for Foldable Gun (DW111/120)).



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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!

For filling applications:

Maximum joint width: 20mm.

Firmly extrude PL 70 high tack 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. After application, the product can be smoothed with soapy water (e.g. 5%-7% of Pril in water) before skinning.

Masking tape must be used where sharp exact lines or exceptionally neat lines are required. Remove the tape whilst the product has still not formed a skin. Use PL70 high tack only for gaps/joints with no movement.

Cleaning:

Clean tools and application equipment immediately. Use water with plenty of soap, white spirit, ethanol, or other solvents for cleaning. The cured product can only be removed mechanically (e.g. with a knife or a scraper).

After curing:

When fully cured PL 70 High Tack can be painted, water-based acrylic paints are particularly suitable. We recommend pretest, because of the many different paints. Oxygen-curing paints (e.g. alkyd-resin) show longer drying/tackiness. 2K-Epoxy paints show bad levelling property.

TECHNICAL DATA

<u>PL 70 high tack, uncured product</u>	
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 ³
Skin formation time (23°C, 50% r. h.)	~ 10 minutes
Open time	~ 15 minutes



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Curing speed (23°C, 50% r. h., bead 20x10mm)	~ 2 mm / 24 hours
Initial tack	~ 35 g/cm ²
Gap bridging capacity	Up to 20 mm
Shelf life	Cartridge 15 months Internal remark: 18 months shelf life possible, if special cartridges are used. Please ask Packaging/IBM/ TS 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
<u>PL 70 high tack, cured product</u>	
Shore A hardness (ISO868)	~ 60
Modulus 100% (DIN 53504, S2)	~ 1,5 N/mm ²
Elongation at break (DIN 53504, S2)	~ 100%
Tensile strength (DIN 53504, S2)	~ 1,6 N/mm ²
Final Strength (DIN EN 205)	~ 2,0 N/mm ² (lap-shear strength, wood/wood)
Service temperature	-30°C up to +80°C, 100°C for a short period
Coverage on flat surfaces	~ 300 g/m ²
Shrinkage (ISO 10563)	~ -3 %

LIMITATIONS

Storage:

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

Notes on application:

It is recommended to test the compatibility of PL 70 high tack in contact with painted surfaces or if PL 70 high tack will be overpainted after application. Paints which crosslink in the presence of oxygen can show longer drying times, tackiness or discoloration, especially in case of alkyd resin paints. Do only paint over if product is fully cured.

Do not use PL 70 high tack as a glazing 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, e.g. in swimming pools below the water line, water pipes. Do not use PL 70 high tack to seal bathtubs, washbasins or tiled walls/floors in bathrooms.



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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 an approval.

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 is 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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