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# Technical Data Sheet – Pattex Click n Fix



Technical Data Sheet

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## Pattex Click n Fix 30g x 12

EAN code: 6001091352317

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
- Moisture curing
- Non-slumping
- Interior and exterior use
- Multiple materials
- Sensitive materials
- Flexible bonding
- Porous- and non-porous surfaces
- Isocyanate-free
- Solvent- free
- Gap-bridging
- Sound and vibration damping
- Weather and aging resistant
- Works on wet surfaces
- No shrinkage

### **APPLICATION FIELD**

- Pattex Click n Fix 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



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recommended. Wet surfaces are possible if it has the possibility to dry. Not recommended for permanent water immersion.

- 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. 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

### Application:

Just Click & Fix!



1. Remove the cap and aluminum foil, then press the device until you hear the Click
2. Fix your item on the surface and press firmly. It will be adjustable for a few minutes and then you are done!

After removing the aluminium protection foil, the product has only a limited storage stability (maximum 6 months). After application please firmly put the cap back on, to ensure better protection from curing.

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 dots do not merge!

### Cleaning:

Clean unwanted contaminations with the glue 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).



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**TECHNICAL DATA OF THE FORMULA**

<b><u>PL 70 high tack, uncured product</u></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.)	~ 10 minutes
Open time	~ 15 minutes
Curing speed (23°C, 50% r. h., bead 20x10mm)	~ 2 mm / 24 hours
Initial tack	~ 35 g/cm <sup>2</sup>
Gap bridging capacity	up to 5 mm (height of a dot)
Shelf life	Unopened packaging (sealed with an alu-foil at the nozzle): 18 months  From date of production if stored in unopened original packaging, in dry conditions and protected from direct sunlight at temperatures between +5°C and 25°C
<b><u>PL 70 high tack, cured product</u></b>	
Shore A hardness (ISO868)	~ 60
Modulus 100% (DIN 53504, S2)	~ 1,5 N/mm <sup>2</sup>
Elongation at break (DIN 53504, S2)	~ 100%
Tensile strength (DIN 53504, S2)	~ 1,6 N/mm <sup>2</sup>
Final Strength (DIN EN 205)	~ 2,0 N/mm <sup>2</sup> (lap-shear strength, wood/wood)
Service temperature	-30°C up to +80°C, 100°C for a short period
Shrinkage (ISO 10563)	~ -3 %



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#### **RECOMMENDED MAXIMUM LOAD LEVELS FOR ONE ADHESIVE DOT**

The bonding surface of one adhesive dot depends on how closely the two surfaces can be pressed together, and how much gap/unevenness the adhesive has to fill. Therefore, the initial tack and final strength of one dot depends strongly on the gap between the substrate and the object, and eventually from the roughness of two the surfaces.

Dot Size	Once Applied	Once Squeezed	
		1mm gap	2 mm gap
	2.0 cm diameter	3.5 cm diameter	2.4 cm diameter
Strength			
Instant Tack	Instantly	300 g	160 g
Final Strength	Once fully cured*	7 kg	3.5 kg

\*Curing speed depends on the surface, material, humidity level and temperature. Porous materials and high humidity allow the adhesive to cure faster.

The number of dots needed for different applications depends on the shape, dimension, weight and type of material of the objects to be bonded and on the material of the wall. If the tack is insufficient, apply more dots.

#### **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.

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.



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## **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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