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Technical Data Sheet – Pattex 100% Gel

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Revision: 1
Issued: 26.06.2018
Number of pages: 2

Pattex 100% Gel

EAN code: 6001091351921



CHARACTERISTICS

- Water and solvent free repair adhesive based on FlexTec® technology
- High final strength and initial grip
- Flexible and vibration-resistant
- Gel texture
- Gap filling
- Safe and easy to use
- Solvent-free, no shrinkage
- 1-component, moisture-curing
- For interior and exterior application
- Water and ageing resistant.
- Not suitable for polypropylene polyethylene, Teflon®

APPLICATION FIELD

- For DIY, repair and modelling work in and around the house
- Glues many absorbent and non-absorbent materials like:
 - *Metals (aluminium, stainless steel, brass, steel, copper, zinc, etc.)
 - *Glass, concrete, ceramic, tiles, stone
 - *Wood, cork, paper, cardboard
 - *Textiles, leather, rubber, varnished surfaces.
 - *Plastics like rigid polystyrol, polystyrolfoam, glass-fibre reinforced polyester (GFP), rigid PVC, polycarbonate, steel, polystyrene foam (Styrofoam®) or ABS.

Not suitable for polyethylene (PE), polypropylene (PP), polytetrafluoro-ethylene (PTFE) (Teflon®) and sensitive textiles.

INSTRUCTIONS FOR USE

Pretreatment

The material to be bonded should be clean and free of grease and dust. Clean laminates, metal etc. with solvent (washing benzene or alcohol). Additional abrading increases bonding strength with metals. The adhesive cures by absorbing moisture from the environment, so make sure the applied glue film has contact to ambient air. In case of gluing two non-absorbent surfaces curing time can be slowed down. To optimize curing time, you can previously clean surface with a damp cloth but make sure to avoid wetness, pooling water or drop formation.

For coated materials pretest adhesion and roughen if necessary

Application

Depending on the nature of your repair job you can choose among three different ways of applications:

1. Transparent bonding.

Apply **Pattex 100% Repair Gel** in a thin layer to get a transparent film. Keep the items pressed for approx.1 hour.

2. Fill gaps.

Apply **Pattex 100% Repair Gel** in a thick layer to fill gaps up to 5mm max. Fix or clamp the items together for 1 – 3 hours and do not touch or



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move them. In 24 hours, 70% of the full adhesion strength is achieved.

3. High initial grip.

Apply **Pattex 100% Repair Gel** on both surfaces in thin and even layers. Leave for 3-5 minutes. Use as a contact adhesive. After **Pattex 100% Repair Gel** become tacky, like pressure sensitive tape, bring the items together immediately and press firmly. Fixation is not necessary in many cases. Please note that final strengths decrease when used as contact glue.

By all applications please make sure to keep the tube nozzle and cap clean and immediately tightly close cap to avoid curing of the glue at the nozzle.

TECHNICAL DATA

Composition	Flextec® polymer based
Density	ca. 1,1 g/cm ³ bei 25°C
Heat resistance	-50°C up to 110°C
Open time	3-5 min, depending on temperature and relative humidity
Application temperature	+5°C up to +40°C
Gap filling	Up to 5mm
Final tensile strength (acc. DIN EN 205)	3-6 N/mm ² dep. on material
Shelf Life	12 months
Setting time	2mm every 24 hours, depending on temperature and humidity conditions

LIMITATIONS

Though adhesive is water resistant, no long-term water immersion is recommendable. Put the cap back immediately after applying the glue since it cures very fast.

Cleaning tools

Clean tools with thinner, alcohol or wash bencene immediately after use. Once cured **Pattex 100% Repair Gel** is not soluble in any solvent and can only be removed mechanically.

Storage

Store tightly close and at room temperature. Avoid temperatures lower +5°C and above +50°C.

HEALTH AND SAFETY

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

The information provided herein, especially recommendations for the use and application of our products, is based upon our current knowledge and experience. Due to different possible applications as well as varying application and working conditions, which are beyond our control, we strongly recommend to carry out sufficient extensive prior trials to confirm the suitability of our products for the relevant production processes, as well as the intended applications and results. Any liability in respect of the information in this Technical Data Sheet or any oral recommendations is excluded, except in the event of harm to life, physical injury or harm to health or if we are liable-for gross negligence or willful misconduct or according to applicable mandatory product liability law.

Henkel SA Pty. Ltd

Toll Free Number: 0800 13 81 81

Website: www.pattex.co.za