



PATTEX

KSB SCHWERE GEGENSTÄNDE

1-part and flexible multipurpose assembly adhesive with very high initial tack for indoor and outdoor applications based on Flextec-Technology.

CHARACTERISTICS

- Very high initial tack
- 400 kg/m² initial tack (cartridge); 125 kg/m² initial tack (tube)*
- Instant 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
- Sensitive materials
- Flexible bonding
- Porous- and non-porous surfaces
- Free of phthalate plasticizers
- Overpaintable and sandable once cured
- Isocyanate-free
- Solvent-free
- Works on wet surfaces
- No shrinkage

* Henkel internal laboratory method

APPLICATION FIELD

- Indoor and outdoor adhesive applications
- PATTEX KSB SCHWERE GEGENSTÄNDE 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.
- Bonding of natural stones (e.g. window sill seat made of marble, granite) is possible if the natural stone has a thickness of at least 10 mm.

* Pre-test to determine suitable bonding, because of many different substrates. The adhesion of PATTEX KSB SCHWERE GEGENSTÄNDE 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, PATTEX KSB SCHWERE GEGENSTÄNDE are ready to apply.

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



STANDARDS

GEV EMI CODE®	EC 1 ^{plus} (very low emissions)
VOC emission class (France)	A+

INSTRUCTIONS FOR USE

Pretreatment

All surfaces must be clean, free from any dust and grease or anything which may be detrimental to correct adhesion. Standing water on absorbent substrates should be removed first. 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 a primer like Haftreiniger P819.

Application

Cartridge: Cut the cartridge above the thread, for example using PATTEX smoothing cutter, then screw on the cartridge tip and insert the cartridge into a suitable gun.

Tube: Unscrew the cap from the tube and start applying the adhesive by squeezing the tube. Close the tube again immediately after applying the adhesive.

Apply PATTEX KSB SCHWERE GEGENSTÄNDE in strips or spots on the bonding surface at intervals of a few centimeters. Use hand pressure to set the element to be bonded into position. If necessary, use adhesive tape, wedges, or props to hold the assembled elements together for the initial 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.

Strip application (vertical):

With vertical application, moisture cannot accumulate, it escapes again below the workpiece. This prevents prolonged exposure to water on the adhesive, including through condensation.



Spot application:

For light workpieces, spot application is possible, as air circulation promotes rapid 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 strands do not merge!

After curing

When fully cured PATTEX KSB SCHWERE GEGENSTÄNDE can be painted, water-based acrylic paints are particularly suitable. Due to the large number of coatings on the market, it is recommended to test the compatibility of a coating product before use.

Cleaning

Fresh PATTEX KSB SCHWERE GEGENSTÄNDE that has not yet set can be removed with spirit. The same applies to cleaning the tools. Cured material can only be removed mechanically with a suitable tool (e.g. with a knife).

TECHNICAL DATA

Uncured product	Cartridge	Tube
Base	Flextec-Polymer (Moisture curing silane modified polymer (SMP) - cures by reaction with atmospheric humidity.)	Flextec-Polymer (Moisture curing silane modified polymer (SMP) - cures by reaction with atmospheric humidity.)
Appearance	Paste, off white	Paste, off white
Odour	Alcohol	Alcohol
Application temperature, °C	5 - 40 (substrate and ambient)	5 - 40 (substrate and ambient)
Consistency	Non-slumping paste	Non-slumping paste
Density (ISO 2811-1), g/cm ³	~ 1.65	~ 1.65
Skin formation time, minutes	~ 15 (23°C, 50% r.h.)	~ 15 (23°C, 50% r.h.)
Open time, minutes	~ 20	~ 15
Curing speed, mm/hours	~ 1.5/24 (23°C, 50% r.h., bead 20x10mm)	~ 1.5/24 (23°C, 50% r.h., bead 20x10mm)
Initial tack, g/cm ²	~ 35 - 45	~ 10 - 15

Cured product	Cartridge	Tube
Shore A hardness (ISO 868)	~ 60	~ 60
Elongation at break, %, (ISO 37, Type 2)	~ 80	~ 70
Tensile strength (ISO 37, Type 2), N/mm ²	~ 1.6	~ 2.3
Tensile shear strength (DIN EN 205), N/mm ²	~ 1.5 (lap-shear strength, wood/wood)	~ 2.8 (lap-shear strength, wood/wood)
Service temperature, °C	-30 - 80, 100°C for short periods	-30 - 80, 100°C for short periods
Coverage on flat surfaces, g/m ²	~ 300	~ 300

LIMITATIONS

It is recommended to test the compatibility with the coating before use if PATTEX KSB SCHWERE GEGENSTÄNDE has contact with painted surfaces or if PATTEX KSB SCHWERE GEGENSTÄNDE 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. Do only paint over if product is fully cured.

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

Do not use PATTEX KSB SCHWERE GEGENSTÄNDE 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 PATTEX KSB SCHWERE GEGENSTÄNDE 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 PATTEX KSB SCHWERE GEGENSTÄNDE 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.

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).

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

Cartridges: 18 months from date of production if stored in unopened original cartridges, in dry conditions and protected from direct sunlight at temperatures between 5 - 25°C.

Tubes: 12 months from date of production if stored in unopened original tubes, in dry conditions and protected from direct sunlight at temperatures between 5 - 25°C.

Chemical resistance

The product is not recommended for applications with permanent contact with chemicals.

Packaging

Article abbreviation	Color	Container	IDH
PKBHT	White	Cartridge, 440g	2708149
PKBH2	White	Tube, 340g	3060227

DISPOSAL

Small, dry residues can be disposed of with household/commercial waste. Dispose of large quantities separately. Empty packaging should be recycled. The European waste code can be found in the Safety Data Sheet.

HEALTH AND SAFETY

It is recommended to consult the current safety data sheet for precautions and safety advice before starting processing. The safety data sheet is available at www.mysds.henkel.com. For Information for allergy sufferers on Tel. 0049 (0)211 797 0 (keyword emergency)



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.

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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