



PATTEX

Universal Silicone

CHARACTERISTICS

PATTEX Universal is a one - component silicone sealant for multiple applications, with excellent adhesion and high elasticity.

- Quick opening without cutting
- High extrudability
- Resistant to aging and UV rays
- Resistant to extreme temperatures and bad weather
- Highly elastic
- Odorless after hardening
- Waterproof
- For interior and exterior use
- Limited post-drip effect
- Does not shrink over time
- Recycled cardboard cartridge

APPLICATION FIELD

PATTEX Universal can be used for:

- Sealing joints in doors and windows with wooden, metal, PVC frames, etc.
- Sealing perimeter joints in window sills
- Sealing joints in floors and terraces
- General sealing and fixing applications



STANDARDS

EN 15651-1 (CE marking)	product type F-EXT-INT: sealant for facade for interior and exterior applications
EN 15651-2 (CE marking)	product type G: sealant for glazing applications
EN 15651-3 (CE marking)	product type S: sealant for sanitary applications
EN 15301-1	reaction to fire: class E
ISO 846-B	microbiological growth: level 1
ISO 1600	Class F-12,5E

INSTRUCTIONS FOR USE

Surface preparation

All surfaces must be clean and dry, free from any dust and grease or anything which may be detrimental to correct adhesion of the sealant. Residues of old sealant or other materials as well as mould on the substrate must be removed completely (if necessary, use a silicone remover). Degreasing is performed using a pad soaked in solvent (alcohol or white spirit) followed by wiping with a clean cloth. Dust should be removed using oil-free compressed air. To get best sealing results it is recommended to mask edges of the joints with a tape before application of the sealant mass.



Joint dimensions

The movement capability of the sealant as well as local regulations must be considered. In general, the joint width must be > 10 mm and < 35 mm and the joint width should be twice the depth. In case of rectangular sanitary joints, it is necessary to maintain a minimal depth of 5 mm. In case of triangular joints, both contact areas should be minimum 5 mm wide.

Priming

Although PATTEX Universal Silicone will bond well to most surfaces it is recommended to use a primer on certain substrates to ensure a strong and uniform bond.

Preparation

Remove the protective upper plug and position the nozzle on the thread. Keep the plug for post use. The nozzle should be cut off aslant according to the joint width and recommended joint dimensions. Insert the cartridge into a compatible sealant gun. Make sure it is seated correctly (selected smaller extruders might not match the cartridge).

Opening

Press the trigger until a click is heard. An audible click signals the break of the transport lock. Keep pressing firmly until you feel a burst - this opens cartridge & initiates flow of the sealant. Any cutting operations are not require.

Application

Apply the product directly to the joint – i.e. the area where two surfaces meet. Use the product like a conventional sealant. Smoothing off the seal ensures good contact between the sealant and the bonding surfaces. Directly after application, spray the joint with a mild detergent solution (soapy water) and smooth off with an appropriate tool. Remove any tape immediately before surface skin is formed. Upon completion of the application, remove the cartridge from the gun and place the plug to preserve the product for future use.

Cleaning tools

Areas soiled with fresh sealant may be cleaned with a dry pad or a pad soaked in a solvent. Any cured sealant can be removed by scraping (e. g. using a razor blade) or by using a special silicone remover product.

Please note

The joint must be cleaned and maintained regularly. Take care of a good and regular air circulation in the room where the sealant is applied. Curing speed is depending on temperature, air humidity and on the dimensions of the joint. Low temperatures, low air humidity or big joint dimensions need longer curing speeds.

Disposal instructions

1. Detach the bottom plastic ring from the cartridge.
2. Unwind the cardboard cartridge body in a spiral motion.
3. Recycle the plastic ring and cardboard tube in accordance with local recycling regulations **
4. Dispose of the nozzle and internal foil. **

** Please consult your local authority about specific recycling and disposal guidelines.

LIMITATIONS

PATTEX Universal Silione is not recommended for swimming pool joints, for aquarium joints or for applications under water.

PATTEX Universal Silione seals must not be over-painted (poor covering and adhesion of the paint).

Before using PATTEX Universal Silione on painted substrates, paint has to be completely dry and cured.

Prior compatibility tests are recommended, considering the variety of paints that exist.

PATTEX Universal Silione is not recommended on materials which can exude certain components over time (butyl sealant, EPDM rubbers, polychloroprene, etc.).

Discoloration or reduction of adhesion properties could take place.

Application of PATTEX Universal Silione on natural stone (e.g. marble, granite) is not recommended.

For applications on natural stone use a special natural stone silicone.

PATTEX Universal Silione is not recommended for applications on PMMA (Plexiglass®), PTFE (Teflon®), polyethylene and polypropylene.

TECHNICAL DATA**Uncured product**

Type of silicone	Acetoxy
Appearance	Paste
Density, (ISO 2811-1), g/ml	~ 0.98-1.0
Application temperature, °C	+5 to +40
Skin formation time, (+23 °C / 50% RH), minutes	~ 15
Curing rate (+23°C, 50% RH, cross-section of joint 20x10mm), mm/day	~ 2.2
Colors	clear, white

Cured product

Shore A hardness (ISO 868)	~ 18
Change of volume (ISO 10563), %	~ 20
Temperature resistance, °C	-30 to +120
Elongation at break, (ISO 8339-A), %	~ 400
Elastic recovery, (ISO 7389-A), %	~ 95
Modulus at 100% elongation, (ISO 8339-A), N/mm ²	~ 0.4
Movement capability, (ISO 11600), %	12.5



GENERAL INFORMATION

Storage

Store PATTEX Universal Silicone in a dry place between +5 °C and +25 °C in dry environment, protected from frost & direct sunlight. The product maintains a shelf life of 24 months from the date of manufacture when kept in its original, unopened packaging. Refer to the packaging for production and/or expiry dates. For best use, it is recommended to use the product up to 4-6 weeks after the initial opening. This is valid when products are sealed with the protective plug, stored according to the instructions.

Colours

Transparent
White

HEALTH AND SAFETY

Before using the product please see related Material Safety Data Sheet that is available on request. Use general protective clothing while working with the sealant. Acetic acid is released during vulcanization. These vapors should not be inhaled for long periods or in high concentration. Hence, good ventilation of the work place is necessary. Cured silicone rubber, however, can be handled without any risk to health.

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.