



Technical Data Sheet



Pattex Malarfog One-part acrylic sealant

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CHARACTERISTICS

Pattex Malarfog is a one-part joint sealant, based on an acrylic dispersion. Pattex Malarfog is a non-sag sealant for indoor and outdoor joints with low movements.

- Overpaintable (see notes on application)
- Easy to apply / very good application properties
- Good adhesion to many substrates without primer such as concrete, wood etc.
- Even bonds to damp, absorbent substrates without primer
- Virtually odourless
- High durability
- Solvent-free

STANDARDS

- Conforms to EN 15651-1 (CE marking) Product type F-EXT-INT: sealant for facade for interior and exterior application
- EN 15301-1 Reaction to fire: Class E

APPLICATION FIELD

- Sealing of connection joints with low movements indoor and outdoors
- For connection joints around small to medium sized wooden window frames, door frames in the interior, roller blind boxes, window sills, PVC-pipes/conduits, drywalls, ceilings, stucco, connection joints between walls and skirting boards, etc.
- For sealing of indoor connection joints on substrates such as concrete, plaster, brick, plasterboard, aluminium, wood, PVC, etc.
- For connection joints sealed/filled during wallpapering and painting
- In the area of walls and ceilings for filling of small cracks or joints, e.g. in plaster, bricks, stones, wood, etc.



TECHNICAL DATA

Before curing	
Base	Water based acrylic dispersion
Odour	Slight, sweet
Density (ISO 2811-1)	~ 1.56 g/ml
Resistance to flow (ISO 7390)	~ 0 mm

Curing	
Skin formation time (+23 °C / 50% RH)	~ 30 min.
Curing speed (+23°C, 50% RH, cross-section of joint 20x10mm)	~ 10 days/ 5mm
Application temperature	+ 5°C to + 40°C (substrate and ambient)

After curing	
Shore A hardness (ISO 868)	~ 40
Modulus at 100% elongation (ISO 8339-A)	~ 0.2 N/mm ²
Elongation at break (ISO 8339-A)	~200%
Shrinkage	~ -30%
Recommended joint width	max. 30 mm
Movement capability (ISO 11600)	12.5%
Temperature Resistance	- 20 to + 80°C
Elastic recovery (ISO 7389-A)	~ 80%
Modulus at 100% elongation (ISO 8339-A)	~ 0.2 N/mm ²
Tensile strength	~ 0.35 N/mm ²

INSTRUCTIONS FOR USE

Pattex Malarfog is supplied ready to use and can be applied from the cartridge using a standard air or hand operated gun, with no special pre-treatment.

The joint width must be designed to suit the movement capability of the sealant.

- In general the joint width should be > 10 mm and < 30 mm if movements are expected. A width to depth ratio of ~1:0.5 should be maintained.
- Recommended minimum joint width for joints around windows and doors: 10 mm
- For triangular joints the sides should be 6 mm minimum.

Joint preparation

The substrates to seal should be clean, dry and free of dust, oils, grease and loose particles. Porous substrates (e.g. concrete, plaster, wood...) should be wetted well before applying the sealant. Where necessary completely remove old sealant and other residues. Surfaces can be degreased with the appropriate cleaner. To produce optically neat joints we recommend masking off joint edges with an appropriate tape.

After joint and substrate preparation, insert backing rod (closed cell, PE-foam backing rods) to required depth if necessary.



Application

Cut off the top of cartridge cap above the thread, screw on the plastic nozzle and cut at an angle to match the joint strand width required. Insert the cartridge into a sealant gun and inject sealant into the joint making sure that the sealant is in full contact with the sides of the joint and avoid air entrapment.

Tooling

Directly after application, the product should be tooled firmly against the joint sides to ensure good adhesion. The joint can be lightly sprayed with clean water before tooling. Remove the masking tape whilst the sealant has still not formed a skin and tool the joint to a smooth surface with water. Remove water residues and protect the surface of the sealant from water (rain) until a skin has formed.

Cleaning tools

Fresh, uncured product can be removed with water. Clean tools and application equipment with water immediately after use. Cured sealant is insoluble in all solvents and can only be removed mechanically (e.g. with knife).

Notes on application/limitations

Sealants may only be painted over if the coating is able to follow the movements of the sealant (in general if joint movements are <5%, depending on the coating) – otherwise cracks in the surface of the coating can occur. The product can be painted over using the usual commercial paint, lacquer and varnish systems. Pre-tests for paint compatibility and overpaintability are recommended before use.

Do not apply when rain or frost is imminent. Protect from rain after application for 1 hour minimum. During curing Pattex Malarfog must be protected from frost. After curing the product is waterproof and frost resistant.

Application during high temperature changes is not recommended (crack formation due to movements during the curing).

Do not use Pattex Malarfog as glazing sealant, in floor joints, movement joints in exterior walls, on marble/natural stones, on bituminous substrates, natural rubber, chloroprene, EPDM or on building materials which might bleed oils, plasticizers or solvents which could attack the sealant. Do not use on easy corroding substrates like blank steel, iron etc.

Not suitable for joints with water pressure or joints with permanent water immersion (underwater systems, sanitary installations, flooring joints, balconies and terraces). Do not use Pattex Malarfog to seal bathtubs or washbasins.

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.

For further information and in case of application fields which are not mentioned in this data sheet please contact your local Henkel representative.



GENERAL INFORMATION

Surfaces

The product is suitable for many types of construction materials: concrete, brick, fibre-concrete, painted metals, lacquered aluminium, anodized aluminium, wood, PVC etc. No adhesion to PE, PP, PTFE(Teflon®). Not recommended for marble, tile, ceramics.

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 Technical Services.

Storage

18 months from date of production if stored in unopened original cartridges, in dry conditions and protected from direct sunlight at temperatures between +10°C and 25°C.

Chemical resistance

The product is not recommended for applications with permanent contact with chemicals. Poor resistance to aromatic solvents, organic acids, concentrated alkalis and concentrated acids, chlorinated hydrocarbons, detergents.

In cases of other chemicals contact Technical Services.

Packaging

280ml PE cartridge

Colours

white

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 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. f.

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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