Technical Data Sheet

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Pattex Mould Blocker

White, Silver Grey and Dark Grey

CHARACTERISTICS

Pattex Mould Blocker is a low modulus, one component, ready-to-use, pure neutral silicone sealant (alkoxy type) for sealing and bonding joints in sanitary and in facade joints where very high mildew resistance is required.

Pattex Mould Blocker combines the advantages of excellent primerless adhesion properties (including on synthetic surfaces), neutrality and excellent long-term mould resistance properties.

- High mildew resistance by unique triple protection system:
  - avoids adhesion of fungi / mould spores
  - stops growth of fungi / mould on the surface
  - inhibits the production of fungi / mould spores
- 100% silicone
- Low modulus
- 25% movement capability
- Smooth and glossy appearance which allows it to be in harmony with today's sanitary equipment
- Excellent UV-, weather and ageing resistance
- Waterproof
- Primerless adhesion on numerous substrates such as: ceramics, enamel, clear and layered glass (and all other glazed surfaces), metals, wood (painted or unpainted), PVC, PC, PMMA, concrete, etc.
- Excellent adhesion on plastics, including PMMA (best adhesion profile in the range)
- Non-corrosive
- Odourless during application
- Excellent resistance to fungal growth (5 years guarantee)
- Good resistance against conventional cleaning products and a lot of chemicals

APPLICATIONS

Pattex Mould Blocker can be used for:

- Sealing and bonding of joints/expansion joints in sanitary and similar applications
- Specially for sealing joints on acrylic bath tubs
- Sealing of joints at wash basins, showers, kitchens, aluminium profiles, etc.

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 0
ISO 11600	class F-25LM and G-25LM
Others	Fresenius label cleanroom certificate certificate VDI 6022 (air conditioning plants) certificate VDI 2167 (resistance towards disinfecting agents)

TECHNICAL DATA

Before curing	
Type of silicone	Alkoxy
Appearance	Paste
Density (ISO 2811-1)	~ 1.04 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)	~ 2.5 mm / day
Application temperature	+ 5 to + 40°C

After curing	
Shore A hardness (ISO 868)	~ 20
Movement capability (ISO 11600)	25%
Max. joint width	30 mm
Change of volume (ISO 10563)	~ 6%
Temperature Resistance	- 50 to + 120°C

Mechanical properties	
Elastic recovery (ISO 7389-A)	~ 90%
Modulus at 100% elongation (ISO 8339-A)	~ 0.3 N/mm²
Elongation at break (ISO 8339-A)	~ 250 %

INSTRUCTIONS FOR USE

Pattex Mould Blocker is supplied ready-to-use and can be applied from the original packaging with no special pre-treatment.

Surface preparation

All surfaces must be clean and dry, free from any dust and grease or anything which is likely to impair 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).

Degrease using a pad soaked in solvent (alcohol or white spirit) followed by wiping with a clean cloth.

To get best sealing results it is recommended to mask edges of the joints with a tape before application of the sealant mass.

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

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.

Recommended standard dimensions for exterior facade elements (acc. DIN 18540):

design joint width	15 mm	20 mm	25 mm	30 mm	35 mm
minimum joint width	10 mm	15 mm	20 mm	25 mm	30 mm
joint depth	8 mm	10 mm	12 mm	15 mm	15 mm

Recommended minimum joint width for joints around windows and exterior doors: 10 mm.

In case of rectangular sanitary joints, it is necessary to maintain a minimal depth of 5 mm.
In case of ttriangular joints, both contact areas should be minimum 5 mm wide.

Priming

Pattex Mould Blocker has good adhesion properties without using a primer on plastic substrates, especially PMMA, and most common surfaces like, glass, ceramics, aluminium, etc.

Sealant application

Apply sealant ensuring that the seal is completely filled. 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.
Smooth over any proud sealant edges immediately.

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.
Do not use oxidizing detergents like hydrogen-peroxide for cleaning of the joint, because that could cause discolouration of the sealant.
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.
Water-treatment of the sealant is possible after approx. 24 hours. Softness of the sealant disappears after approx. 3 days.

LIMITATIONS

For any applications on sensitive surfaces carry out preliminary testing to check compatibility with the sealant.

Pattex Mould Blocker is not recommended for joints that are in direct food contact.

Pattex Mould Blocker is not recommended for structural glazing applications.

Pattex Mould Blocker is not recommended for swimming pool joints, for aquarium joints or for applications under water.

Pattex Mould Blocker seals must not be over-painted (poor covering and adhesion of the paint).

Before using Pattex Mould Blocker on painted substrates, paint has to be completely dry and cured. Prior compatibility tests are recommended, considering the variety of paints that exist.

Pattex Mould Blocker is not recommended on materials which can exude certain components over time (butyl sealant, EPDM rubbers, polychloroprenes, etc.). Discolouration or reduction of adhesion properties could take place.

Application of Pattex Mould Blocker on natural stone (e.g. marble, granite) is not recommended. For applications on natural stone use a special natural stone silicone.

Pattex Mould Blocker is not recommended for applications on PTFE (Teflon®), polyethylene and polypropylene.

GENERAL INFORMATION

Storage
Store Pattex Mould Blocker in a cool and dry place between + 5 °C and + 25 °C.
Shelf life is 12 months in the original packaging after date of manufacture (the expiry date is shown on the packaging).

Packaging
300ml PE cartridges
200ml Easy Pulse pressure pack

Colours
White
Silver Grey
Dark Grey

HEALTH AND SAFETY

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

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