

pens[®] foam

technical data sheet · polyurethane

pens[®] foam is a polyurethane foam designed to fill, insulate and seal. It cures with room temperature, creating a semi rigid closed-cell foam, that adheres to most building materials such as wood, brick, metal, aluminum and plaster.

Product Data

PROPERTIES	VALUE	TEST METHOD
<i>Closed-cell content</i>	>70%	
<i>Tack free time</i>	6-12 minutes (25°C, 50% RH)	QP-02-015
<i>Full cure</i>	1.5 to 5 hours (25°C, 50% RH)	
<i>Hardening time</i>	15 minutes maximum	
<i>Cutting time</i>	< 1 hour	
<i>Density</i>	17-28 kg/m ³	QP-02-14
<i>VOC</i>	<156.5 g/L	
<i>Application temperature</i>	5°C to 25°C	
<i>Service temperature</i>	-40°C to 90°C	
<i>Elongation</i>	20-25 %	DIN-53455
<i>Tensile strength</i>	15 psi	
<i>Hardness, Shore A</i>	10-14 psi	
<i>Expansion</i>	13 L	
<i>Pressure</i>	4.5-6.5 BAR	QP-02-013
<i>Thermal conductivity</i>	20°, 0.036 W/Mk	DIN-52612
<i>Flammability</i>	F	EN13501, Class 1

Information obtained from laboratory tests.

Uses

- Sealing wide joints or separations between walls and door and window frames.
- Sealing steel door frames and filling under their sill.
- Filling big holes in brick, block, and concrete.
- Insulating copper and cast-iron pipes exposed to high temperatures.
- Sealing air conditioning equipment embedded in wall joints.
- Filling cracks or gaps in several surfaces.

Advantages

- Easily used.
- It does not damage the atmosphere.
- Waterproofing, coatings or plaster can be applied, once cured.
- Single component.
- It can be painted (even with spray).
- Cured foam is not toxic.

Application

Make sure that surfaces about to seal are steady, dry, clean, and free from dust, grease and oil. Clean porous surfaces using a brush or pressured air to remove all loose particles. Shake the can with the valve upside down for at least one minute and place the adapter. **Apply pens[®] foam** holding the can upside down, pressing the valve with two fingers allowing the foam to flow, controlling it by applying or reducing pressure. Apply only the necessary amount of foam, considering it expands 200% while curing.



Recommendations

- Read security indications before using.
- Testing is suggested under real application conditions to ensure its correct performance.
- Use in well-ventilated areas to avoid vapor formation during application and curing. Use safety equipment such as glasses and clothing.
- After cleaning and before applying **pens[®] foam**, slightly spray the surface with clean water to improve foam expansion, especially in gaps wider than 3".
- To obtain an adequate finish, cut foam excess with a blade or spatula. Sand down if necessary.
- When exposed to sunlight directly, paint foam to avoid staining or damage to it.

Maintenance

- It does not require any maintenance, however if the foam suffers any damage, clean the surface and apply **pens[®] foam** again.

Precautions

- Avoid contact with eyes and skin or prolonged vapor inhalation (causes lung irritation).
- When there is skin contact, clean with a soaked cloth in acetone or isopropyl alcohol until all foam is removed. Uncured foam can be removed from clothing with a wet rag in acetone (does not apply in synthetic fibers).
- Pressurized content, do not hit or burn.
- Extremely flammable foam, keep away from heat, flames, sparks or static electricity. Do not place in hot water or near radiators, heaters, stoves or other heat sources or materials above 49°C (120°F).
- Do not leave in children's reach.

Limitations

- Once applied, **pens[®] foam** must not be exposed to sunlight.
- Do not apply on Teflon, polyethylene, silicone, oil or grease.

Presentation

Packaging and Colors



• Yellow

Coverage

Depends on application.

Shelf life

12 months kept in a fresh and dry storage, in its original packaging at a 21°C (70°F) temperature and 50% of atmospheric moisture.

Technical Support

Productos Pennsylvania's Technical Support is at your service, assisting you with:
Guidance in how to apply this or any of our products.
Blueprint reviews.
Joint dimension calculus.
Compatibility and adhesion testing of our sealants with different materials.

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NOTE:

Productos Pennsylvania S.A de C.V. provides technical assistance when required. Please contact our Technical Department regarding use and application of this product. It is the user's responsibility to test the product and its uses before application.