

# pens® foam

## polyurethanes

Technical Data Sheet

**pens® foam** is a polyurethane foam for multiple purposes designed to fill, insulate and seal. Cure with humidity of the environment, turning into a semi-rigid foam of closed cell. It adheres to a several variety of construction materials like wood, brick, metal, aluminum and gypsum plates.

### Technical Information

PROPERTIES	VALUE	TEST METHOD
Closed cells content	>70%	
Skin over time	5-10 minutes (77 °F y 50% HR)	FEICA OCF TM 1014
Curing ratio	1.5 to 5 h (77 °F y 50% HR)	
Can be cut	<1 hour	
Application temperature	41 °F to 77 °F	
Service Temperature	-40 °F to 194 °F	
Tensile Strength	8.7 to 11.6 lbf/in <sup>2</sup>	FEICA OCF TM 1018
Density	18-23 kg/m <sup>3</sup>	FEICA OCF TM 1019
Expansion	<3.43 gal	
Elongation	20-25%	FEICA OCF TM 1018
Flammability class	F	EN13501, part 1

Information obtained from laboratory tests.

### Uses

**pens® foam** has been mainly developed for:

- Seal large joints or separations between walls and door or window frames.
- Seal the joints in the forge doors frames and below the plates of the bases.
- To fill large holes in materials like bricks, block and concrete in constructions.
- To insulate (jacketed) copper and fo.fo tubes in high temperature zones.
- To seal joints between the embedded and wall air conditioning systems.
- Specially designed to fill cracks or slit in flat or irregular surfaces.

### Advantages

- Easy to use.
- Does not harm the ozone layer.
- A single component.
- It could be applied waterproofing, pastes or scratch coat once cured.
- It could be painted with any paint (even sprays).
- The cured foam is not toxic.
- It expands more than a 300%.

### Application

The surfaces to be sealed shall be firm, dry, clean free of dust, grease, oil, water and old sealant. Porous surfaces shall be cleaned with brush or applying compressed air to remove all loose particles. Shake the can vigorously for one minute so the components mix completely and place the applicator. Apply **pens® foam** with the can pointing downward and pressing with the index finger and middle finger so the foam flows (1/3 part) considering it will expand a 300% during the curing process.



## Recommendations

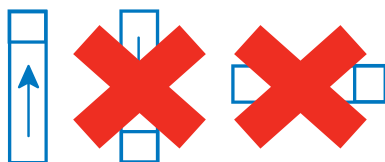
- Read the information about safety instructions before using this product.
- It is recommended to perform tests under actual application conditions to guarantee its proper operation.
- Use only in well ventilated areas with air in motion to prevent formation of vapors during its application and curing; and with protective clothes, gloves, as well as protective glasses.
- After the cleaning and to achieve a better expansion of the foam, it is recommended that the surfaces are slightly wet spraying clean water before applying each layer of **pens® foam**. Specially in cavities with a diameter larger than 3".
- To get a good finishing, it is recommended that once cured the foam, the excess is cut at the edge of the surfaces with a knife or cutter. In case it is required, it could be sanded or even leveled with gypsum, concrete or paste
- If the foam is going to be exposed to the sun rays, it is recommended to paint it to prevent the stain (burnt yellow) or the degradation.
- Perform tests under actual application conditions to guarantee its proper operation.

## Maintenance

- It does not require any maintenance, however.
- In case that the foam already applied suffer any damage, replace the damaged section and place again **pens® foam**.

## Precautions

- Prevent the contact with skin, eyes and prolonged or repeated inhalation of vapors (Lung irritant).
- In case of contact with the skin, rub with a cloth dampened in acetone or isopropyl alcohol repeatedly until eliminate the foam completely. The non-hardened foam could be removed from clothes using a cloth dampened with acetone (it does not apply for synthetic fibers).
- The content is under pressure, it shall not be punch or burn (compressed spray gas).
- The foam is extremely flammable, keep away from heat, sparkles, flame or static electricity. Do not place in hot water or near to radiators or stove heaters or other heat sources or above 49 °C (120°F).
- Keep out of the reach of children.
- Store vertically.

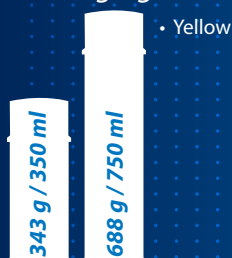


## Limitations

- Once applied the foam, it shall not be exposed to sun light.
- Do not apply on teflon, polyethylene, silicone, oil and greases.

## Presentation

### Packaging and Colors



## Coverage

350 ml yields 13 liters. (Volume)  
750 ml yields 38 liters. (Volume)

## Shelf Life

18 months in cold and dry warehouse in its original packaging at temperatures of 21 °C (70 °F) and 50% relative humidity. Heat excess may cause premature aging of the components, which cause a short shelf life.

## 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.

### 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.

Productos Pennsylvania, S.A. de C.V.

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the caulking expert

