

## TECHNICAL DATA SHEET

Edition 14 April 2017

ONE COMPONENT

HIGHLY EXPANSIVE

GUN APPLIED

POLYURETHANE

FIXING FOAM

# POWERSEAL PU Expansion Gun Foam

### DESCRIPTION

PowerSeal Foam is Gun type, a polyurethane-based fast curing expanding foam.

### USES

- Filling gaps and voids that occur around the home and during building construction.
- Installation of window and door frames.
- Insulation of pipes.



POWERSEAL FOAM

### FEATURES

- Excellent adhesion on most materials (except PE/PP, Silicone, Teflon)
- High thermal insulation and sound absorption
- Very good filling capacities
- Quick and easy gap filler
- Excellent stability (no shrink)

### PRODUCT INFORMATION

- Packaging: 24oz (680g) non-returnable cans.
- Color: Light Yellow.

- Shelf Life: 12 months in un-opened from original packaging
- Storage Conditions: Store at temperature between +18 °C and +22 °C.

## TECHNICAL INFORMATION

Base	Polyurethane
Consistency	Stable Foam
Curing System	Moisture Cure
Tack Free Time	10 min at 20°C/60% R.H
Curing Rate	From 2 to 3 hrs for a bead of 3 cm at 20°C/65%r.h.
Shrinkage	None
Cellular Structure	60-70% closed cells
Density	23 kg/m <sup>3</sup> (extruded)
Temperature Resistance	-40°C until +90°C (cured)
Fire Class	B3 (DIN 4102 part 2)
Foam Yield	Max. 40 +/- 3 liter/can

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

- The substrate must be free of dust, grease, oil and surface contaminants.
- The surface should be moist with water before application to ensure that:
  - (a) The foam cures at an optimum rate, and
  - (b) Secondary foam expansion is prevented.

### APPLICATION METHOD / TOOLS

- Screw the Gun Dispenser onto the can
- Shake can thoroughly (approx. 20 times) before use.
- Apply foam by pointing nozzle into area to be filled and depressing. It can be applied valve up or down.

- Foam will dispense rapidly and will expand 1.2~2 times its size as it comes out of the can
- The quantity of foam can be regulated by varying the pressure on the adaptor.

### CLEANING OF TOOLS

- Remove fresh spots of foam immediately using acetone or foam cleaner.
- Cured foam can only be removed mechanically.

## STORAGE AND SAFETY

The aerosol cans must be stored in a vertical position under room temp. Content under pressure. Exposure to temperatures over + 50 °C may cause bursting. Contains diphenylmethane-4,4'-diisocyanate. Harmful by inhalation. Irritating to eyes, respiratory system and skin.

## SAFETY MEASURES

- Apply the usual industrial hygiene.
- wear gloves and safety goggles
- remove cured foam by mechanical means only, never use a burner!
- Do not touch the surface during the curing time at frost temperatures.
- Always moisten surfaces before application in order to improve curing and cellular structure
- Cured PU Foam must be protected from UV radiation by painting.

## LIMITATIONS

PoweSeal Foam does not adhere to Teflon, polythene, silicone or grease.

For special uses, PowerSeal Foam in advance.

Aged material can yield up to 30 % less than the specified value.

## **BASIS OF PRODUCT DATA**

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## **LOCAL RESTRICTIONS**

Please note that as a result of specific local regulations the declared data for this product may vary from country to country.

Please consult the local Product Data Sheet for the exact product data.

## **ECOLOGY, HEALTH AND SAFETY**

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## **LEGAL NOTES**

The information, and, in particular, the recommendations relating to the application and end-use of PowerSeal products, are given in good faith based on Toolway Industries current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Toolway Industries's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered.

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