

# DOW GREAT STUFF PRO

## GAPS & CRACKS

### POLYURETHANE EXPANDING FOAM FILLER

**Dow Great Stuff Pro Gaps and Cracks** is one-component polyurethane assembly foam, and is based on a moisture curing polyurethane prepolymer. It contains an environmentally safe propellant, which complies with the latest EU regulations banning all CFC- and HCFC-propellants.

The development and manufacture of our products is subject to our approved quality assurance system according to ISO 9001.

#### AREAS OF APPLICATION

- Gaps around door and window frames.
- Pipe entries through brickwork and walls.
- Insulating water pipes and tanks.
- Gaps around floorboards and skirting boards.
- Filling unwanted holes, small break throughs in walls and other cavities.

#### PROPERTIES

The fresh foam adheres to all common building materials except from surfaces such as polyethylene, silicone, oil and grease and similar substrates.

The foam can be used at temperatures from +5°C to +25°C. The cured foam is semi-rigid and predominantly close-celled. It is resistant to temperatures ranging from -40°C to +100°C and to ageing, but not to UV-rays. Noise and heat insulation values are excellent.

Once fully cured the foam can be cut, sawn, sanded, painted or plastered over.

#### PREPARATION

Surfaces must be firm, clean, and free of dust, loose particles and grease. **They must be moistened well with water.** All construction components must be properly prepared prior to foam application. It is advisable to have **Dow Great Stuff Pro PU Cleaner** at hand.

The ideal working temperature for both the can and environment is +20 °C. Chilled cans must be carefully warmed in luke-warm water before usage. However, the can must not be heated above +50 °C, as there is a risk of bursting. Cans which are too hot, for example after having been left in a vehicle during summer, must be cooled in water. The can should be

shaken occasionally during this process to obtain the required temperature faster.

Prior to work, and before the adapter is attached, the can must be shaken thoroughly at least 15 - 20 times. Then the adapter is attached firmly to the valve. Care must be taken not to overtighten the adapter and not to activate the valve during this process.



## APPLICATION

The instructions for the can must strictly be observed. The fresh foam will expand by 1 ½ to 2 times. Therefore care must be taken not to overfill joints.

Fresh foam spills must be removed immediately within the tack-free time with **Dow Great Stuff Pro PU Cleaner**. Cured foam can be removed mechanically.

### Please Note:

Moisture is needed for an even and rapid curing of the foam. Inadequate moistening or overfilling of joints and cavities may lead to an unwanted post-expansion of the foam.

Foam extrusion can be controlled accurately by varying the pressure or by tilting the adapter. For foam extrusion the valve is pointed down. The valve lever is to be activated carefully.

Once a can has been started, it should be used within four weeks.

## SAFETY INSTRUCTIONS

**Dow Great Stuff Pro Gaps and Cracks** contains combustible components and isocyanate. The following warning instructions must be read before working and must be strictly observed:

Harmful by inhalation and if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation. In use, may form extremely flammable/explosive vapour-air mixture.

When using, do not smoke. In case of contact with eyes or skin, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection. Do not breathe spray. In case of insufficient ventilation, wear suitable respiratory equipment. In case of accident or if you feel unwell, seek medical advice immediately (if possible show the label). Contains isocyanate, see information supplied by manufacturer.

## IMPORTANT NOTES

**Dow Great Stuff Pro Gaps and Cracks** will only cure uniformly and rapidly if there is adequate moisture available; the surfaces should therefore always be well moistened.

## DELIVERY FORM

500 ml and 750 ml aerosol cans  
Carton: 12 cans each

## TECHNICAL DATA

(determined at +20 °C, 50 % relative air humidity)

### **Dow Great Stuff Pro Gaps and Cracks**

Yield, free expansion (bulk density approx. 18 kg/m <sup>3</sup> )	
500 ml can	approx. 25 litres
750 ml can	approx. 38 litres
Raw density (confined space)	approx. 25 kg/m <sup>3</sup>
Cell-structure	medium-fine
Tack-free	app. 8 minutes
Cuttable	(20 mm bead) after app. 15 minutes
Full stability load bearing	(20 mm bead) after app. 12 hours
Minimum working temperature (Can, application surfaces)	+5 °C
Maximum working temperature (Can, application surfaces)	+25 °C
Optimum working temperature (Can, application surfaces)	+20 °C
Tensile strength (in accordance to DIN 53430)	18 N/cm <sup>2</sup>
Elongation at tension (in accordance to DIN 53430)	30 %
Shear strength (in accordance to DIN 53427)	8 N/cm <sup>2</sup>
Compressive strength at 10% stress (in accordance to DIN 53421)	5 N/cm <sup>2</sup>
Water absorption (in accordance to DIN 53433)	0.3 Vol.-%
Thermal conductivity approx.	0.04 W/mK
Temperature resistance of the cured bead	
Long-term	-40 °C to +80 °C
Short-term	-40 °C to +100 °C
Shelf life	12 months
Store and transport in cool, dry conditions (Considerably higher temperatures may reduce the shelf life)	
Cans must be stored in a standing position.	

We reserve the right to make physical and chemical changes to our products from time to time as a result of technical development and research.

Supplied in the U.K. by

**GEOCEL LIMITED** WESTERN WOOD WAY,  
LANGAGE SCIENCE PARK, PLYMPTON,  
PLYMOUTH, DEVON PL7 5BG  
T 01752 334350 F 01752 202065  
E [customer.services@geocel.co.uk](mailto:customer.services@geocel.co.uk)

The data given herein is intended as a general guideline only. Actual results achieved may vary with working conditions and the materials involved which are beyond the control of the manufacturer. Results achieved may not constitute any ground for a claim against the manufacturer. The manufacturer can only guarantee the quality of the product itself.

**This data sheet cancels and replaces all previous editions.**