

DOW GREAT STUFF PRO

GAPS & CRACKS GUN APPLICATION

GUN APPLIED POLYURETHANE FOAM FILLER

Dow Great Stuff Pro Gun Application 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.

BENEFITS

- Ready to use, high performance, one component material.
- Excellent adhesion to most construction materials.
- Fast curing.
- Self-moulding to surface irregularities.
- Surface can be cut, sawn, sanded, painted or plastered over after application.
- Gives effective insulation against damp and draught and is completely water resistant.
- Ease of application – purpose designed applicator gun.
- Easy clean applicator gun.

AREAS OF APPLICATION

- Internal and external applications.
- Mechanically fixing and insulating door and window frames.
- Pipe entries through brickwork and walls.
- General filling of cavities, cracks and holes.

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.

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 lukewarm 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 can is attached to the PU-gun, it must be shaken thoroughly at least 15 - 20 times. Care must be taken that the can is not attached tilted into the thread or overturned.



APPLICATION

The instructions, both for the can and the gun, must strictly be observed.

The fresh foam will expand by 1 ½ to 2 times. Therefore care must be taken not to overfill joints. To extrude the foam, pressure has to be carefully applied to the gun trigger.

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

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.

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

SAFETY INSTRUCTIONS

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

DELIVERY FORM

750 ml aerosol cans
Carton: 12 cans each

TECHNICAL DATA

(determined at +20 °C, 60 % relative air humidity)

Dow Great Stuff Pro Gun Application

Yield, free expansion (bulk density approx. 15 kg/m³)	
750 ml can	approx. 42 litres
Cell-structure	medium-fine
Tack-free	approx. 7 minutes
Cuttable (20 mm bead) after approx.	12 minutes
Full stability load bearing (20 mm bead) after approx.	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/cm²
Elongation at tension (in accordance to DIN 53430)	30 %
Shear strength (in accordance to DIN 53427)	8 N/cm²
Compressive strength at 10% stress (in accordance to DIN 53421)	5 N/cm²
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 +100 °C
Short-term	-40 °C to +130 °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.

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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.