



DS600 POLYURETHANE FOAM

Technical Data Sheet. No. SD-191202

DESCRIPTION

DS600 is one-component, low pressure, closed cell, self-expanding polyurethane foam for all season temperature performance. It is used primarily to seal around windows and doors in environments with low temperature and/or low humidity.

DS600 is made from an MDI Monomer, uses environmentally friendly propellant and contains a fire retardant.

Special formulation enables you using in low temperature and low humidity conditions. Dispensing guns work well at -5°C (23°F) and will completely empty all contents of the can, enabling you to use gun foam in colder months.

Low Expansion formulation of DS600 which is allows you to use it for window and door installation with no risk of bowing or bending and also eliminate the pull out of foam after caulking.

FEATURES

- Super strong adhesive strength for many kinds of surfaces. (except PTFE, PE, and PP)
- Closed cell structure provide heat preservation and unwanted air infiltration.
- Low expansion will reduce the risk of distortion or bending.
- Super high foam output. 36 meters caulking length.
- Excellent elasticity, strong vibration resistance.
- Excellent water and mould proof.
- Good yield 45-50 L/750 ml.
- High thermal and noise insulation
- Help to reduce energy consumption.
- Can be used with regular dispensing guns.
- Each can come with an easy install transparent straw.

APPLICATIONS

- Windows and doors installation. (Gap filling, sealing, bonding and fixing between doors, windows and walls)
- Production of models and sand tables, repair of exhibition boards.
- Sound insulation. (Good for security door, language lab, broadcasting studio and other interior decoration)
- Improving thermal isolation in cooling systems
- Daily home maintenance. (Filling hole and gap of the air conditioning pipes and channels, filling of holes, gaps of concrete and tiles.
- Used for packing & transportation, good resistance to shock and pressure.

INSTRUCTIONS

- The applicable temperature of DS600 is $+5^{\circ}\text{C} \sim +35^{\circ}\text{C}$
- The optimal using temperature is $+18^{\circ}\text{C} \sim +25^{\circ}\text{C}$
- The range of temperature of the cured foam is $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$

- Clean the surface of the substrate from grease, oil, dust, frost or any other contaminants. Spray a little water on the surface if temperature is > 0 °C
- Shake the aerosol can for at least 30 seconds. Fit the gun on the adapter and Fill holes and cavities at 65% as the foam will expand.
- Repeat shaking regularly during application.
- After using foam spray gun, clean it immediately with foam cleaner.

TECHNICAL PARAMETERS

Parameters	Value	TEST Method
Color	Oyster white	laboratory tested
Density	17~18 kg/m ³	laboratory tested
Flame class	B3	laboratory tested
Thermal conductivity	≤0.050 W/(m· K)	laboratory tested
Porosity	Uniform dense	laboratory tested
Tensile strength	102 kPa	laboratory tested
Shear strength	118 kPa	laboratory tested
Aging resistance	≥30 years keep out of the sun	laboratory tested
Temperature resistance	-40°C (-40°F) to 90°C (194°F) when cured	laboratory tested
Approximate cure schedule	Tack free after approx. 8-10 minutes	
Ready to cut	After approx. 15-20 minutes	
Shrinkage	None	
Post-expansion	None	
Water infiltration	No leakage after 15 minute exposure (@ 2.9 psf)	ASTM E331

CAUTIONS

- Uncured foam is sticky to the skin and clothes. Do not let it touch the skin and cloths when using.
- There is a pressure of 5~6 kg/cm² (25°C) in the can, so the temperature should not exceed 60°C during storage and transportation.
- Avoid direct sunlight.
- Keep away from open flames and avoid contact with flammable and explosive materials.
- The construction site should keep well-ventilated, it is recommended wear work gloves, work clothes and goggles during using DS600 foam.

VOLUME & PACKING

Each can: 750 ml / 850 gr

Each Box: 12 can

Each box: 10.5 kg gross.

STORAGE

Store in a cool and dry place with a temperature 5~27°C for 12 months.