



Sovereign

the gold standard in building products

Technical
Data Sheet **50**

Sovereign Expanding Foam

A versatile one part moisture curing polyurethane foam under pressure in an aerosol container.



Product Code
30806164

Description

Sovereign Expanding Foam is a one part moisture curing polyurethane foam under pressure in an aerosol container. The canister contains a specially developed liquid prepolymer of diphenylmethane di-isocyanate (MDI) in combination with propellants and foaming agents. Contains no CFCs (in accordance with the Montreal Protocol).

Form Supplied: Aerosol

Pack Sizes: 750 ml

Colour Range: Clear

Contains: Liquid pre-polymer of diphenylmethanedi-isocyanate

Properties

Excellent bonding to concrete, brickwork, stone, plaster, wood, fibre glass, concrete, metal and numerous synthetic materials (polystyrene, PU hard foam, polyester, hard PVC).

Resistant to decay, heat, water and many chemicals. No hydrocarbons. Good dimensional stability.

When used for Sound Insulating Windows the achievable airborne sound joint insulation index is up to 58 dB.



PREPARATION

Excellent primer-less adhesion to concrete, brick, stone, plaster, wood, fibre, metal and plastics such as PVC. Surfaces should be sound, dry and free from dust and grease.

Shake the can vigorously for at least 1 minute before use. Carefully fix the extrusion tube to the outlet valve alternatively screw the can onto the extruder gun mounting if being used. The speed of application can be controlled using the regulator on the gun. Joints or cavities should only be filled to a maximum of 70% - 80% of their volume. When filling very deep voids the foam should be applied in layers leaving 1-2 hours between applications.

USAGE

Always handle the can with the valve pointing downwards. The PU-foam flow can be adjusted by the lever on the valve of the mounting foam can. Apply foam sparingly. Apply in ribbons and moisten between layers.

IMPORTANT ADVICE

Use only in well-ventilated areas. Wear suitable gloves and eye/face protection. Protect floor coverings with paper or plastic film. Remove excess foam immediately with PU-Cleaner or acetone. Cured foam can only be removed mechanically. Not UV-resistant. Store cans upright.

The curing time is dependent upon temperature and humidity. The foam should not be cut or trimmed until full cure has been achieved. The following table can be used as a guide.

CURING TIME

Width (mm)	10	20	30	40
Temp	Waiting time (hours)			
10°C	2	2	3	3.5
10°C	2	2.5	3.5	4
10°C	3	4	5	6

CLEAN UP

Immediately after use the gun must be cleaned with Sovereign Gun Cleaner. Remove the foam can and fix the cleaner can to the gun. Press the trigger several times until clean solvent is expelled. Note part used cans of foam should have their nozzle cleaned to prevent blockage, part used cans should be used up as soon as possible.

COVERAGE

The yield (per can) is approximately 30 litres (freely formed).

Storage: Between 5°C - 30°C.

Shelf Life: 9 months stored upright and unopened.

HEALTH & SAFETY

- ! Harmful, extremely flammable.
- ! Handle only when wearing protective clothing.
- ! Wash splashes from skin with soap and water, flush eyes with copious amounts of water and seek immediate medical attention.



Health & safety information
available on request

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Basis	Polyurethane-poly
Curing	Moisture curing
Character	Flexible foam
Foam expansion surfaces moistened	200 %
Foam expansion surfaces not moistened	130 %
Tack free	8 - 13 minutes, 23°C, and 50% RH
Can be cut	60 minutes, 23°C, and 50% RH
Full cure	24 hours, 23°C, and 50% RH
Thermal conductivity	0.03 mW/m.K
Tensile Strength	140 kPa
Compression Strain (10% deformation)	50 kPa
Shear strength	90 kPa
Elongation at break	13%
Water absorption	0.03% volume maximum
Density (formed at joint)	25 - 33 kg/m ³
Application temperature	+5°C - +35°C
Temperature resistance	From -40°C up to +90°C long-term
Temperature resistance	From -40°C up to +130°C short-term



Important Disclaimer

The information given is in good faith based on experience and usage, however all recommendations are made without warranty or guarantee, since the conditions of use are beyond our control. All goods are sold in accordance with our Conditions of Sale, copies of which are available on request. Customers are advised that product, techniques and codes of practice are under constant review and changes occur without notice. Please ensure you have the latest updated information.



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