



**TECHNICAL DATA SHEET**

**Expanding Foam Spray Gap Filler**



**Product Code:** ESPSGF



**SPS ENVIROWALL PROMOTES THE RE-USE –RECYCLING AND RESPONSIBLE DISPOSING OF ALL OF ITS PRODUCT RANGE, VIA THE ENVIRONMENTAL RECYCLING SCHEMES LOCAL TO SITE.**

**Characteristics**

A fast setting, multi-purpose PU foam which bonds, fills, seals and insulates most construction materials. It is a one component polyurethane assembly foam and is based on a moisture curing polyurethane prepolymer.

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

**Technical Data**

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

<b>Yield, free expansion</b>	<b>bulk density approx. 20-25 kg/m<sup>3</sup></b>
<b>500 ml can</b>	<b>approx. 25 litres</b>
<b>750 ml can</b>	<b>approx. 38 litres</b>
<b>Raw density (confined space)</b>	<b>approx. 25 kg/m<sup>3</sup></b>
<b>Cell-structure</b>	<b>medium-fine</b>
<b>Tack-free</b>	<b>12-16 minutes</b>
<b>Cuttable (20 mm bead)</b>	<b>after 30-40 minutes</b>
<b>Full stability load bearing (20 mm bead)</b>	<b>after approx. 18 hours</b>
<b>Minimum working temperature (Can, application surfaces)</b>	<b>+5°C</b>
<b>Maximum working temperature (Can, application surfaces)</b>	<b>+25°C</b>
<b>Optimum working temperature (Can, application surfaces)</b>	<b>+20°C</b>
<b>Tensile strength (in accordance to DIN 53430)</b>	<b>18 N/cm<sup>2</sup></b>
<b>Compressive strength at 10% stress (in accordance to DIN 53421)</b>	<b>1.5 N/cm<sup>2</sup></b>
<b>Thermal conductivity approx.</b>	<b>0.034 W/Mk</b>

**Temperature resistance of the cured bead**

<b>Long-term</b>	<b>-50°C to +90 °C</b>
<b>Short-term</b>	<b>-650°C to +130 °C</b>

**Substrate**

Surfaces to be bonded must be firm, clean, dry and free from dust, grease or contaminants that may hinder adhesion. They must be moistened well with water. (It is advisable to apply a primer well penetrating into the ground if necessary.) All construction components must be properly prepared prior to foam application. It is advisable to have Foam Cleaner at hand.

**Application**

Used as a gap filler when installing External Wall Insulation boards where it is not possible to cut a thin enough filling section of insulation board to fill a gap between boards.

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 adaptor or gun is attached, the can must be shaken thoroughly for at least 15-20 times to mix the contents. Then the adaptor is attached firmly to the valve. Care must be taken not to overtighten the adaptor and not to activate the valve during this process.

The instructions for the can must strictly be observed. The fresh foam will expand by 1½ to 2 times. Therefore

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care must be taken not to overfill joints. Fresh foam spills must be removed immediately within the tack-free time with Foam Cleaner. Cured foam must be removed mechanically.

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.

**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 adaptor. 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.

CAUTION:- Extremely flammable aerosol.

#### Storage

Store and transport upright, in cool, dry conditions (Considerably higher temperatures may reduce the shelf life). Shelf life is 12 months

#### Certificates/approvals

#### Identification

#### Special Information

#### Disposal

Do not empty contents into the ground, water courses or drains. Check local landfill requirements for correct disposal. See the SPS Envirowall Limited Health & Safety data sheet on this product for information regarding the safe disposal of this product.

#### **Disposal of Containers**

Do not leave empty containers where residue could be harmful to children, animals or the environment. Replace lids and remove any containers to a central disposal point in accordance with local regulations. Do not pierce can. In the event of spillage remove all sources of ignition, ventilate the area, and remove people from confined areas. Material should be mopped up immediately with an inert absorbent material such as sand.

The information supplied in this Technical Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

Our application recommendations, whether verbal, written or as graphics, are given to the best of our knowledge and the state of the art. Information about values, quantities etc. are based on approximate figures. The recommendations do not constitute a legally binding warranty of quality. In particular no liability claims may be based on these recommendations; the provisions of the product liability law remain unaffected.

The recommendations do not release the purchaser from his own duty to test the product or from his own responsibility, and in particular they do not release the purchaser from compliance with the relevant technical guidelines, regulations, DIN and laws. Publication of a revised version of this technical information sheet due to technical progress invalidates all older versions of this document