

SPREE

FILL & FIX

WINDOW & DOOR PU FOAM

TECHNICAL DATA SHEET

SPREE PU FOAM is designed for multi-use. It is a superior stability foam without any shrinkage in high temperature. And it is with good elasticity in low temperatures. Meanwhile, it is a cost-effective product with excellent color and density.

MAIN APPLICATIONS AREAS

- Installing, fixing and insulating door and window frames;
- Filling and sealing of gaps, joints, openings, and cavities;
- Connecting of insulation materials and roof construction;
- Bonding and mounting;
- Insulating the electrical outlets and water pipes;
- Heat preservation, cold and sound insulation;
- Packaging purpose, wrap the precious & fragile commodities, shake-proof and anti-pressure.

ATTENTION!

SPREE PU FOAM must be protected from UV radiation by painting or applying a top layer of sealant, plaster, mortar, or other type of covering. Adhesion of the product is weak on polyethylene, Teflon® and other plastic surfaces.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

- The surface should be cleaned of dust and mortar clods;
- The surface should be sprayed with water using a water sprayer;
- Protect window profiles from the foam's outgrow.

ADVANTAGES

- Excellent filling capacities and insulation ability
- High bonding strength
- High energy efficiency, blocks heat loss



PRODUCT PREPARATION

- The can temperature should be between +10°C to +30°C;
- The optimal temperature of the can is +20°C;
- If the temperature is too low, the product should be put into warm water of +30°C for 15 minutes or left overnight in room temperature.

ATTENTION!

- The excess of foam should be cut after the foam has cured. The foam should not be pushed back into the gap when it's still uncured as it will cause structural defects and worsen the insulation effect.
- After the foam has fully cured it should be protected from UV by mortar or paint.
- If you want to keep using the same can after a longer time, the gun, the adaptor, and the valve should be cleaned with the cleaner for polyurethane foams.

TECHNICAL DATA

Base	Polyurethane
Consistency	Stable Foam
Curing System	Moisture-cure
Tack-free Time (min)	6.5 ~ 7
Cutting Time (min)	70
Expansion Rate	29.72
Expansion (%)	158
Specific Gravity (kg/m ³)	16 ~ 18
Free Expansion (L) 900g/750ml	55 ~ 60
Temperature Resistance	-40°C ~ +80°C
Application Temperature Range	+5°C ~ +35°C
Colour	Off white
Fire Class (DIN 4102)	B2/B3
Compressive Strength (kgf)	10.25

The above data is based on experiment results at 23 °C, 50% humidity Blank. The foam is straw-type.

PRODUCT APPLICATION INSTRUCTION

- Shake the can vigorously (20-30 seconds valve down) in order to mix the components
- Screw the can onto the adaptor
- The working position is valve down
- Vertical gaps should be filled from down to up
- Do not fill the whole gap-foam grows in volume
- If you fill window or door gaps, the gaps maximum gap size should be 3 cm. Foam should not be used in gaps larger than 5 cm.
- The application speed and thickness of the bead should be controlled by adequate pressure on the gun or adaptor trigger.
- If you stop the application for a time longer than 5 minutes, remember to shake the can before the continuation of work.

SAFETY RECOMMENDATIONS

- Do not breathe spray/vapor; In case of eye contact, flush with water and get immediate medical attention;
- Use in well-ventilated areas;
- Wear suitable protective clothing, gloves and goggles;
- Keep away from direct sunlight and do not expose temperatures over 50°C;
- Do not burn or pierce even after use;
- Keep away from heat, sparks, flames and static electricity.
- Turn off sources of ignition (pilot light etc.); Keep out of the reach of children.

SHELF-LIFE / STORAGE

- Product must be transported and stored in temperatures +10°C to +30°C.
- Product must be kept upright at all times.
- Shelf life is 12 months.

PACKAGING

500ml/can, 750ml/can, 12pcs/ctn

WINDOW & DOOR PU FOAM

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

Product name: Spree Polyurethane Foam/ PU Foam

2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

Aerosols Category 1
Acute toxicity, inhalation Category 4
Skin corrosion/irritation Category 3
Serious eye damage/eye irritation Category 2
Sensitisation, skin Category 1
Specific target organ toxicity, single exposure Category 1 (inhalation)

GHS LABEL ELEMENTS:



Signal word: Danger

Hazard statement(s): Extremely flammable aerosol. Pressurized container: may burst if heated. Harmful if inhaled. Causes mild skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Causes damage to organs (inhalation).

PREVENTION

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapours/spray. Wash ... thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

RESPONSE

If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see under for further information). Take off contaminated clothing and wash it before reuse.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Contact a doctor if you feel unwell.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If exposed or concerned: Call a poison center/doctor. Specific treatment (see under for further information).

STORAGE

Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F

DISPOSAL

Dispose of contents/container in accordance with local/regional/national/international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO.	CONCENTRATION (%)
Polymethylene polyphenyl polyisocyanate	9016-87-9	50%
Polyether	63123-11-5	25%
Propane and Butane	74-98-6, 106-97-8	7%, 8%
Dimethyl ether	115-10-6	10%

4 FIRST AID MEASURES

DESCRIPTION OF NECESSARY FIRST AID MEASURES

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Remove contaminated clothing and wash off with plenty of running water.

In case of eye contact: Rinse thoroughly with plenty of running water for at least 15 minutes and consult a physician.

If ingestion: Rinse mouth with water.

Most important symptoms/effects, acute and delayed: /

Indication of immediate medical attention and special treatment needed, if necessary: /

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use foam, dry powder or water spray.

Special hazards arising from the chemical: It can spray flammable gas and the container can burst when it is heated.

Special protective actions for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers. In case of fire in the surroundings, use appropriate extinguishing media.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: It is recommended that emergency personnel wear protective masks and fire protective overalls. Do not touch the spill directly.

Environmental precautions: Isolate contaminated areas and restrict access.

Methods and materials for containment and cleaning up: Ensure adequate ventilation in leak area.

7. HANDLING AND STORAGE

Precautions for safe handling: There should be sufficient local exhaust in workplace. Operators should be trained and strictly follow the operating procedures. Operators are advised to wear protective masks, normal protective clothing and protective gloves. Operators should load and unload lightly during handling to prevent damage to the package. There should be leakage treatment equipment in workplace.

Conditions for safe storage, including any incompatibilities: Store in a cool, dry, well-ventilated warehouse. Keep away from fire and heat. Protect from direct sunlight. It should be stored separately from oxidants, flammable materials, etc., and should not be mixed.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control parameters: /

Appropriate engineering controls: Close strictly and provide sufficient local exhaust. Individual protection measures

Eye/face protection: Wear a protective mask.

Skin protection: Wear normal protective clothing.

Respiratory protection: Air respirators should be worn during emergency rescue or evacuation.

Thermal hazards: /

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, colour etc)

An iron can contains a mixture of high pressure gas and liquid.

Odour	/
Odour Threshold	/
pH	/
Melting point/freezing point	/
Initial boiling point and boiling range	/
Flash point	/
Evaporation rate	/
Flammability (solid, gas)	/
Upper/lower flammability or explosive limits	/
Vapour pressure	/
Vapour density	/
Relative density	/
Solubility(ies)	/
Partition coefficient: n-octanol/water	/
Auto-ignition temperature	/
Decomposition temperature	/
Viscosity	/

10. STABILITY AND REACTIVITY

Reactivity: /

Chemical stability: The material is stable in normal temperature.

Possibility of hazardous reactions: /

Conditions to avoid: Spark, high temperature and static electricity.

Incompatible materials: Flammable materials.

Hazardous decomposition products: Oxycarbides, etc.

11. TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure: Inhaled, swallowed, skin, eyes.

Symptoms related to the physical, chemical and toxicological characteristics: /

Acute health effects: Accidental ingestion of the material may be harmful and cause cough and throat irritation. Oral intake may cause nausea and other symptoms. This material may cause skin and eyes irritation.

Chronic health effects: Repeated or prolonged exposure may cause skin allergy.

NUMERICAL MEASURES OF TOXICITY (SUCH AS ACUTE TOXICITY ESTIMATES):

Polymethylene polyphenyl polyisocyanate:

LD50(oral, rat): >2000 mg/kg

LD50(dermal, rabbit): >9400 mg/kg

LC50(inhalation, rat): 0.49 mg/l/4h

Butane:

LC50(inhalation, rat): 658 mg/l/4H

Dimethyl ether:

LC50(inhalation, rat):309 mg/l/4H

12. ECOLOGICAL INFORMATION

TOXICITY:

POLYMETHYLENE POLYPHENYL POLYISOCYANATE			
END-POINT	TEST DURATION	SPECIES	VALUE
LC50	96 hrs	Fish	>1 mg/L
EC50	96 hrs	Algae or other aquatic plants	>1-640 mg/L

PROPANE			
END-POINT	TEST DURATION	SPECIES	VALUE
LC50	96 hrs	Fish	10.307 mg/L
EC50	96 hrs	Algae or other aquatic plants	7.71 mg/L

BUTANE			
END-POINT	TEST DURATION	SPECIES	VALUE
LC50	96 hrs	Fish	5.862 mg/L
EC50	96 hrs	Algae or other aquatic plants	7.71 mg/L

PERSISTENCE AND DEGRADABILITY:

Low (Propane) / Low (Butane) / Low (Dimethyl ether)

BIOACCUMULATIVE POTENTIAL:

Low (Propane) / Low (Butane) / Low (Dimethyl ether)

MOBILITY IN SOIL:

Low (Propane) / Low (Butane) / High (Dimethyl ether)

OTHER ADVERSE EFFECTS:

None

13. DISPOSAL CONSIDERATIONS

Dispose this product by safe burial. Damaged containers are prohibited from being reused and should be buried in the prescribed place.

15. REGULATORY INFORMATION

Regulations: This safety data sheet is in compliance with the following national standards: GB/T 16483-2008, GB 13690-2009, GB 18218-2018, GB 15258-2009, GB 6944-2012, GB 190-2009, GB/T 191-2008, GB 12268-2012, GA 57-1993, GB/T 15098-2008, GBZ 2.1-2019, GBZ 2.2-2007 as well as the following national regulations: Dangerous Goods Transport Administrative Regulation, Dangerous Chemicals Safety Administrative Regulation.

14. TRANSPORT INFORMATION

UN number: 1950.

UN proper shipping name: AEROSOLS (WITH A MAXIMUM CAPACITY OF 1 LITRE)

Transport hazard class(es): 2.1.

Packing group, if applicable: /

Environmental hazards: /

Special precautions for user: /

16. OTHER INFORMATION

References: UN Recommendations on the Transport of Dangerous Goods Model Regulations UN Globally Harmonized System of Classification and Labelling of Chemicals

NOTE

Note 1: When products contain two or more hazardous substances, Safety Data Sheets should be prepared based on the risk of the mixture.

Note 2: Manufacturer/supplier should ensure the correctness of the information contained in the safety data sheets, and updated in a timely manner.

Note 3: As a result of product features without the existence of certain information or no data available (such as boiling point does not exist for the solid) in the table with "/" logo.



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