BOLETÍN TÉCNICO

UNIPEGA®

ESPUMA DE PU PROFESIONAL

FINA ESTRUCTURA CELULAR Y EXCELENTE PROPIEDAD ADHESIVA

CARACTERÍSTICAS Y APLICACIONES

Espuma de PU Profesional es una espuma de poliuretano monocomponente con una fina estructura celular, indicada para relleno, aislamiento acústico y térmico con excelentes propiedades adhesivas en diversos materiales de construcción. Alta expansión, relleno homogéneo y permanente. Resistente a las variaciones de temperatura. Puede ser cortado fácilmente después de seco y acepta pintura. Por no tener CFC, no provoca daños a la capa de ozono. Indicada para instalación de marcos y puertas, ventanas, tejas, placas de aislamiento térmico, en el alojamiento de bañeras, aire acondicionado, en la eliminación de goteras, revestimiento de barcos, puertas frigoríficas, empalmes de paredes y tabiques.


Instalación de puertas y ventanas


Teja


Tablero de Aislamiento Térmico

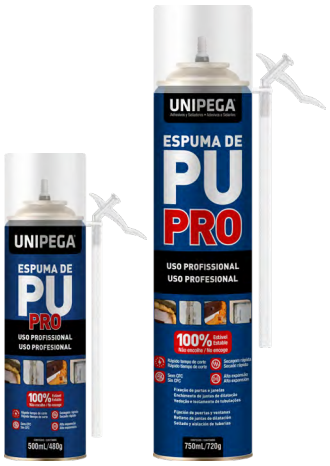

Bañera


Revestimiento de Barco


Puerta del Frigorífico

BENEFICIOS

- No se encoge
- Por no tener CFC, no provoca daños a la capa de ozono
- Relleno homogéneo y permanente
- Alta expansión
- Aislante térmico y de ruidos
- Secado rápido
- Resistente a las variaciones de temperatura
- Puede ser fácilmente cortado y lijado después de la sequedad
- Acepta pintura



PRESENTACIÓN	COLOR	CÓDIGO VENTA	CÓDIGO DE BARRAS	EMBALAJE		NCM	CAJA						PALETIZADO
				Peso (g)	Medidas (LxA) mm		Código	Unid.	Peso Neto (kg)	Peso Bruto (kg)	Comp. (mm)	Largura (mm)	Altura (mm)	
Lata 500mL • 480g	Amarillo	0534.0009	7898652121050	480	64x240	35069900	17898652121057	12	5,760	6,564	210	270	250	Base: 18 Altura: 6
Lata 750mL • 720g		0534.0010	7898652121067	720	64x350		17898652121064		8,640	9,444	203	135	352	Base: 37 Altura: 4

PROPIEDADES

Propiedad	Resultado
Tiempo de formación de película (min)	7 - 15
Tiempo de curado (mm/24h)	24
Tiempo de corte (mm/24h)	50 - 100
Conductividad térmica (ºC)	30-35
Rendimiento 100g (L)	5,2
Resistencia a la tracción	1,075
Resistencia a la temperatura (ºC)	-40 a +90

INSTRUCCIONES DE USO Y MANEJO

PREPARACIÓN DE LA SUPERFICIE

Para un mejor desempeño, la superficie debe estar limpia, libre de polvo y aceites. Para una mejor expansión y fijación de la espuma, rocíe agua en forma de niebla sobre el sustrato antes de la aplicación.

MODO DE EMPLEO

El producto debe aplicarse a una temperatura entre 12 y 35ºC. Antes de la aplicación, agitar vigorosamente el frasco durante un minuto. Enroscar la boquilla aplicadora en la válvula de la lata. Gire el embalaje boca abajo y presione suavemente el gatillo en el vano llenando los espacios vacíos a la mitad, ya que la espuma se expandirá. Después de 10 minutos, pulverice de nuevo con agua para obtener una mejor expansión y evitar la formación de burbujas. Para juntas extensas, aplicar en varios filetes de un máximo de 4 cm y aguardar el secado de la primera antes de aplicar la siguiente. La espuma puede ser cortada despues de 2 horas. Cura total en 24 horas. Se recomienda utilizar todo el contenido del frasco de una sola vez. La espuma no curada se puede limpiar con el removedor de PU.

LIMITACIONES

No se puede utilizar para montaje estructural. No aplicar en superficies donde hay contacto directo con alimentos o en áreas en inmersión de agua constante. No utilizar para el acristalamiento estructural. No utilizar en las articulaciones donde la abrasión y el esfuerzo físico son constantes. No se adhiere en algunos plásticos, como el polietileno, polipropileno y Teflon®. Incompatible con cola de contacto a base de disolvente.

ALMACENAMIENTO

El producto debe mantenerse en el embalaje original y almacenado en un lugar fresco a una temperatura de 5 a 30ºC, lejos de la luz solar directa y de fuentes de calor, con el embalaje siempre almacenado de pie. No exponer al sol y a temperaturas superiores a 50ºC. Evite mantener el producto en el interior de los vehículos. Mantener fuera del alcance de niños y animales domésticos.
Validez (a partir de la fecha de fabricación): 13 meses.

INFORMACIÓN SOBRE LA GARANTÍA LIMITADA

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PROFESSIONAL PU FOAM

Safety Data Sheet

According to ABNT NBR 14725-4

Issue date: 8/22/2019

Revision date: 8/22/2019

Version: 1.0

SECTION 1: Identification of Product and Company

1.1. Product identifier

Trade name : PROFESSIONAL PU FOAM

Product code : ESPUMA DE PU PROFICIONAL

Product description : PU Expansive Foam - Aerosol Can up to 1 liter

Recommended use : Fixing, filling and isolation

1.2. Company identification

A&S Technologies Indústria e Comércio Ltda.
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P.O. Box 180
13918-006 Jaguariúna/SP - Brasil
T +55 (19) 3512-9860
info@unipega.com - www.unipega.com

Emergency number : 0800 110 8270 - PRÓ-QUÍMICA

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GHS BR (ABNT NBR 14725)

Aerosol, Category 1

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 2A

Respiratory sensitisation, Category 1

Skin sensitisation, Category 1

Carcinogenicity, Category 2

Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

Specific target organ toxicity — Repeated exposure, Category 2

2.2. Label elements

GHS BR labelling

Hazard pictograms (GHS BR) :

GHS02 GHS07 GHS08

Signal word (GHS BR) : Danger

Hazard statements (GHS BR) : H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 - May cause respiratory irritation.
H351 - Suspected of causing cancer.
H373 - May cause damage to organs (respiratory system) through prolonged or repeated exposure (Inhalation).

Precautionary statements (GHS BR) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P260 - Do not breathe spray.
P261 - Avoid breathing spray.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear face protection, eye protection.
P284 - [In case of inadequate ventilation] wear In case of inadequate ventilation wear respiratory protection..
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P312 - Call a doctor if you feel unwell.
P314 - Get medical advice/attention if you feel unwell.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P342+P311 - If experiencing respiratory symptoms: Call a doctor.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

2.3. Other hazards not contributing to the classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
polymethylene polyphenyl isocyanate	(CAS-No.) 9016-87-9	42 - 46
butane	(CAS-No.) 106-97-8	11.2 – 12
propane	(CAS-No.) 74-98-6	2.8 – 3

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention. People with over sensibility problems are not allowed to work or be exposed to the product.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. Immediately call a POISON CENTER/doctor.

First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Be careful, the product may remain trapped under clothing, footwear or a wrist-watch. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth out with water.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : May cause damage to organs through prolonged or repeated exposure. May cause severe burns. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Symptoms/effects after inhalation : May cause drowsiness or dizziness. May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing. Danger of serious damage to health by prolonged exposure through inhalation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Symptoms/effects after skin contact : Causes skin irritation. irritation (itching, redness, blistering). Cracking of the skin. Prolonged or repeated contact may cause skin to become dry.

Symptoms/effects after eye contact : Causes serious eye irritation. stinging. redness, itching, tears.

Symptoms/effects after ingestion : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic symptoms : Suspected carcinogen.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS THE LEAK CAN BE STOPPED. Dry chemical, CO2, or water spray or regular foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable aerosol. Pressurised container: May burst if heated. Heating may cause a fire or explosion. In case of fire and/or explosion do not breathe fumes.

Explosion hazard : Explosion risk in case of fire. Heating may cause an explosion.

5.3. Advice for firefighters

Precautionary measures fire : Keep container tightly closed and away from heat, sparks and flame.

Firefighting instructions : Eliminate all ignition sources if safe to do so. Fight fire remotely due to the risk of explosion. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting : Self-contained breathing apparatus. Use self-contained breathing apparatus and chemically protective clothing.

Other information : In case of fire, corrosive and harmful gases come free. High temperature decomposition products are harmful by inhalation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Eliminate every possible source of ignition. Avoid contact with skin and eyes. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Evacuate area. Only qualified personnel equipped with suitable protective equipment may intervene. Notify fire brigade and environmental authorities.

6.1.2. For emergency responders

Protective equipment : Self-contained breathing apparatus. Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product. Corrosionproof suit. Equip cleanup crew with proper protection.

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid discharge to atmosphere. Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up : Absorb spilled material with sand or earth. Clean contaminated surfaces with an excess of water. Take up liquid spill into absorbent material.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling : Obtain special instructions before use. Use only outdoors or in a well-ventilated area. Prevent the build-up of electrostatic charge. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Contaminated work clothing should not be allowed out of the workplace. Keep only in original container. Do not handle until all safety precautions have been read and understood.

Hygiene measures : Always wash hands after handling the product. Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Use only non-sparking tools. Ground/bond container and receiving equipment. Store locked up.

Storage conditions : Keep only in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep in fireproof place. Keep container closed when not in use. Store in a well-ventilated place. Keep cool. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep cool. Protect from sunlight.

Storage area : Store away from heat. Store in a well-ventilated place.

Special rules on packaging : Empty aerosol containers still hold residues and / or vapors and should be handled with the same care as full containers.

Packaging materials : Store always product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Consumer exposure controls : Avoid spray inhalation.

8.3. Personal protective equipment

Personal protective equipment:
Wear recommended personal protective equipment.

Hand protection:
Protective gloves made of PVC. Nitrile rubber gloves

Eye protection:
Wear closed safety glasses

Skin and body protection:
Long sleeved protective clothing. Chemical resistant apron. Wear impervious rubber safety shoes

Respiratory protection:
Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	light yellow
Odour	:	characteristic
Odour threshold	:	Not available
pH	:	Not available
Melting point	:	Not available
Freezing point	:	Not available
Boiling point	:	-8 °C
Flash point	:	-60 °C
Relative evaporation rate (butylacetate=1)	:	Not available
Flammability (solid, gas)	:	Not available
Explosive limits	:	Not available
Vapour pressure	:	Not available
Relative vapour density at 20 °C	:	Not available
Relative density	:	Not available
Density	:	1 g/cm³ (Foam density after expansion: ~ 30 kg/m3)
Solubility	:	Insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Auto-ignition temperature	:	400 °C
Decomposition temperature	:	Not available
Viscosity, kinematic	:	Not available
Viscosity, dynamic	:	Not available

9.2. Other information

Not available

SECTION 10: Stability and reactivity

Chemical stability	:	Extremely flammable aerosol,Pressurised container: May burst if heated.
Conditions to avoid	:	High temperature. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Hazardous decomposition products	:	On exposure to high temperature, may decompose, releasing corrosive gases
Incompatible materials	:	Combustible materials
Possibility of hazardous reactions	:	May mass explode in fire,Heating may cause a fire or explosion.
Reactivity	:	The product is non-reactive under normal conditions of use, storage and transport

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not available

Acute toxicity (dermal) : Not available
Acute toxicity (inhalation) : Not available

polymethylene polyphenyl isocyanate (9016-87-9)	
LD50 oral rat	> 10000 mg/kg (Rat, Literature study, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Literature study, Dermal)

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity : Not available
Carcinogenicity : Suspected of causing cancer.
Reproductive toxicity : Not available
STOT-single exposure : May cause respiratory irritation.
STOT-repeated exposure : May cause damage to organs (respiratory system) through prolonged or repeated exposure (Inhalation).
Aspiration hazard : Not available

11.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : May cause damage to organs through prolonged or repeated exposure. May cause severe burns. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.
Symptoms/effects after inhalation : May cause drowsiness or dizziness. May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing. Danger of serious damage to health by prolonged exposure through inhalation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact : Causes skin irritation. irritation (itching, redness, blistering). Cracking of the skin. Prolonged or repeated contact may cause skin to become dry.
Symptoms/effects after eye contact : Causes serious eye irritation. stinging. redness, itching, tears.
Symptoms/effects after ingestion : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
Chronic symptoms : Suspected carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not available
Hazardous to the aquatic environment, long-term (chronic) : Not available

polymethylene polyphenyl isocyanate (9016-87-9)	
LC50 - Other aquatic organisms [1]	> 1000 mg/l (96 h, Literature study)

12.2. Persistence and degradability

polymethylene polyphenyl isocyanate (9016-87-9)	
Persistence and degradability	Not readily biodegradable in water.

12.3. Bioaccumulative potential

polymethylene polyphenyl isocyanate (9016-87-9)	
BCF - Fish [1]	1 (Pisces, Literature study)
Partition coefficient n-octanol/water (Log Pow)	10.46 (Calculated, KOWWIN)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

polymethylene polyphenyl isocyanate (9016-87-9)	
Partition coefficient n-octanol/water (Log Koc)	9.078 – 10.597 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Adsorbs into the soil.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

Regional legislation (waste) : Law No. 12.305 on the National Policy on Solid Waste Management, 02 August 2010.
Waste treatment methods : Must follow special treatment according to local regulation.
Sewage disposal recommendations : Disposal must be done according to official regulations.