

# SPRAY POLYUREA ELASTOMER

SPUA

## SPUA-102 WATERPROOFING MATERIAL

### PRODUCT DESCRIPTION

**SPUA-102** is a 100% solid, fast set, spray-applied, two component aromatic polyurea elastomer. The system consists of the A component, a quasi-prepolymer rich of free NCO, and the B component, a mixture of polyetheramine, amine extenders and other additives. The unique polyurea chemistry allows this material to be tolerant of moisture and lower temperatures during application. This means that high humidity and hidden moisture in concrete has minimal effect on the application of this product.

- Fast cure, short downtime but not-sagging
- Moisture and temperature insensitivity during processing
- High thermal stability
- 100% solids, No VOC's and odorless
- Extraordinary physical properties
- Exceptional adhesion to primed concrete
- Seamless, flexible and waterproof
- High elongation properties, resistance to freeze-thaw
- Superior weatherproofing
- No chalking and fading in long-term use outdoors

### PERFORMANCE CHARACTERISTICS I

Tensile Strength:	15 MPa
Tensile Elongation:	350%
Tear Strength:	59 KN/m
Impact Resistance:	1.5Kg•m
Adhesion:	2.6 MPa
Durometer Hardness:	Shore A-85~95
Water Vapor Transmission:	0.4 Mpa/2h
Specific Gravity:	1.02 g/cm <sup>3</sup>

### PRODUCT CHARACTERISTICS

### RECOMMENDED USES

Designed for use as a smooth seamless waterproof lining coating system for interiors and a roof and wall coating system for exterior applications. Ideally suited for use in areas including:

Metal, concrete, wood, and foam roofing

- Mechanical rooms
- Cold storage areas
- Basins and reservoirs
- Marine bridges
- Tunnels
- Underground engineering
- Cooling towers of power plants
- Aquarium lining
- Pond lining
- Water & wastewater linings

### PERFORMANCE CHARACTERISTICS II

Tensile Strength:	21 MPa
Tensile Elongation:	520%
Tear Strength:	78 KN/m
Impact Resistance:	1.5Kg•m
Adhesion:	2.8 MPa
Durometer Hardness:	Shore A-80~90
Water Vapor Transmission:	0.4 Mpa/2h
Specific Gravity:	1.02 g/cm <sup>3</sup>

### RECOMMENDED PRIMERS

**Color:** *Optional*  
**Solids:** *100%*  
**VOC(calculated):** *0*  
**Shelf Life:** *12 months, unopened at 15~40°C*  
**Flash Point:** *>200°C*  
**Gel time:** *10 seconds*  
**Mix Ratio (by volume):** *1 : 1*  
**Recommended Spreading Thickness:** *1~2mm*

**Concrete:**  
SPUA-D400 Sealing Primer @ 8~10 sq. m. /1 Kg per coat  
**Others:** Contact us for a recommendation.

#### ORDERING INFORMATION

#### Packaging:

Part A: 220 kilogram drums  
Part B: 200 kilogram drums

Drying time is temperature, humidity, and film thickness dependent..

#### Freight Classification:

Coating Solution Non-Flammable Liquid



# SPRAY POLYUREA ELASTOMER

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## SPUA-406 PIPE ANTICORROSION COATING & LINING

### PRODUCT DESCRIPTION

SPUA-406 is a 100% solid, fast set, spray-applied, two component aromatic polyurea elastomer. The system consists of the A component, a quasi-prepolymer rich of free NCO, and the B component, a mixture of polyetheramine, amine extenders and other additives. The unique polyurea chemistry allows this material to be tolerant of moisture and lower temperatures during application. This means that high humidity and hidden moisture in concrete has minimal effect on the application of this product.

- Fast cure, short downtime, but not-sagging
- Moisture and temperature insensitivity during processing
- High thermal stability
- Excellent anti-corrosive properties
- Resistant to solvents, caustics and many acids
- Extraordinary physical properties
- Excellent bond strengths
- 100% solids, No VOC's and odorless
- Seamless, flexible, slick and non-porous

### RECOMMENDED USES

Designed for use as a seamless, anti-corrosion coating system for exterior application of pipeline and large diameter pipe. Ideally suited for use in various pipes and pipelines, including:

- Aerial pipeline coating
- Underground pipeline coating
- Wastewater pipe coating
- Fuel pipeline coating
- Gas pipeline coating
- Chemical steel storages & containments coating

### PRODUCT CHARACTERISTICS

Color:	<i>Optional</i>
Solids:	<i>100%</i>
VOC(calculated):	<i>0</i>
Shelf Life:	<i>6 months, unopened at 15~40°C</i>
Flash Point:	<i>&gt;200°C</i>
Gel time:	<i>20 seconds</i>
Mix Ratio (by volume):	<i>1 : 1</i>
Recommended Spreading Thickness:	<i>1~2mm</i>

Drying time is temperature, humidity, and film thickness dependent..

### PERFORMANCE CHARACTERISTICS

Tensile Strength:	<i>25MPa</i>
Tensile Elongation:	<i>45%</i>
Tear Strength:	<i>81KN/m</i>
Durometer Hardness:	<i>Shore D-65~75</i>
Impact Resistance:	<i>1.5Kg•m</i>
Adhesion:	<i>16MPa</i>
Electric Strength:	<i>26Mv/m</i>
Abrasion Resistance:	<i>25mg</i>

**Salt Spray Corrosion (2000hrs):**

*Blister - None Corrosion - None Spalling - None*

**Chemical Resistance:** *Consult Chemical resistance Chart for specific information*

**Specific Gravity:** *1.01g/cm<sup>3</sup>*

**ORDERING INFORMATION**

**Packaging:**

Part A: 220 kilogram drums

Part B: 210 kilogram drums

**Freight Classification:**

Coating Solution Non-Flammable Liquid

**RECOMMENDED PRIMERS**

**Others:** Contact us for a recommendation.



# SPRAY POLYUREA ELASTOMER

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SPUA-502 TRUCK ABRASION RESISTANCE LINING

## SPUA-502 Truck Abrasion Resistance Lining

### PRODUCT DESCRIPTION

SPUA-502 is a 100% solid, fast set, spray-applied, two component aromatic polyurea elastomer. The system consists of the A component, a quasi-prepolymer rich of free NCO, and the B component, a mixture of polyetheramine, amine extenders and other additives. The unique polyurea chemistry allows this material to be tolerant of moisture and lower temperatures during application. This means that high humidity and hidden moisture in concrete has minimal effect on the application of this product. The coating system cures so fast that the facilities can go into service immediately.

- A higher abrasion resistance than carbon steel
- Seamless, evenly roughness gain surface
- Superior weatherproofing and chemical resistance
- Fast cure/ short downtime for high application efficiency.
- Moisture and temperature insensitivity during processing
- High thermal stability
- Extraordinary physical properties
- Excellent bond strengths
- 100% solids, No VOC's and odorless

### RECOMMENDED USES

Designed for use as a car lining due to the excellent abrasion resistance, anti-corrosion and decorative properties. Ideally suited for use in various cars, including:

- Light cars
- Camions
- Container cars
- Loading cars

### PRODUCT CHARACTERISTICS

Color:	<i>Optional</i>
Solids:	<i>100%</i>
VOC(calculated):	<i>0</i>
Shelf Life:	<i>6 months, unopened at 15~40°C</i>
Flash Point:	<i>&gt;200°C</i>
Gel time:	<i>10 seconds</i>
Mix Ratio (by volume):	<i>1 : 1</i>

### PERFORMANCE CHARACTERISTICS

Tensile Strength :	<i>15MPa</i>
Tensile Elongation:	<i>200%</i>
Tear Strength:	<i>71KN/m</i>
Durometer Hardness:	<i>Shore</i>
A-85~95Adhesion:	<i>11.8MPa</i>
Abrasion Resistance :	<i>4.9mg</i>
Specific Gravity:	<i>1.02g/cm<sup>3</sup></i>

**Recommended Spreading Thickness:** 1~2mm

Drying time is temperature, humidity, and film thickness dependent..

**Impact Resistance:** 1.5Kg•m

#### ORDERING INFORMATION

**Packaging:**

Part A: 220 kilogram drums

Part B: 200 kilogram drums

**Freight Classification:**

Coating Solution Non-Flammable Liquid

#### RECOMMENDED PRIMERS

**Steel:**

SPUA-D100 Anticorrosive Primer @ 5~6 sq.m./1 Kg per coat

**Others:** Contact us for a recommendation.



# SPRAY POLYUREA ELASTOMER

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## SPUA-HS ANTI-COLLISION FLEXIBLE MATERIAL

### PRODUCT DESCRIPTION

**SPUA-HS** is a 100% solid, fast set, spray-applied, two component aromatic polyurea elastomer. The system consists of the A component, a quasi-prepolymer rich of free NCO, and the B component, a mixture of polyetheramine, amine extenders and other additives. The unique polyurea chemistry allows this material to be tolerant of moisture and lower temperatures during application. This means that high humidity and hidden moisture in concrete has minimal effect on the application of this product.

- Fast cure, short downtime, but not-sagging
- Extraordinary physical properties
- Excellent bond strengths
- Moisture and temperature insensitivity during processing
- High thermal stability
- 100% solids, No VOC's and odorless
- Outstanding flexibility, high abrasion and impact resistance
- Superior weatherproofing
- No chalking and fading in long-term use outdoors

### PRODUCT CHARACTERISTICS

Color:	<i>Optional</i>
Solids:	<i>100%</i>
VOC(calculated):	<i>0</i>
Shelf Life:	<i>6 months, unopened at 15~40°C</i>
Flash Point:	<i>&gt;200°C</i>
Gel time:	<i>10 seconds</i>
Mix Ratio (by volume):	<i>1 : 1</i>
Recommended Spreading Thickness:	<i>1~3mm</i>

Drying time is temperature, humidity, and film thickness dependent..

### RECOMMENDED USES

SPUA-601 provides outstanding protection and buffer on surface of marine facilities including buoys, ship fenders, floats, dodgem boats and glass fiberhulls. It can be used for manufacture or repair the slides or other facilities in water park.

### PERFORMANCE CHARACTERISTICS

Tensile Strength:	<i>18MPa</i>
Tensile Elongation:	<i>500%</i>
Tear Strength:	<i>70KN/m</i>
Durometer Hardness:	<i>Shore A-85~95</i>
Abrasion Resistance:	<i>1.8mg</i>
Impact Resistance:	<i>1.5Kg•m</i>
Electric Strength:	<i>26Mv/m</i>
Adhesion:	<i>Foam Damage</i>
Specific Gravity:	<i>1.00g/cm<sup>3</sup></i>
Salt Spray Corrosion (2000hrs):	<i>Blister - None</i>

*Corrosion - None*

*Spalling - None*

#### ORDERING INFORMATION

**Packaging:**

Part A: 220 kilogram drums

Part B: 210 kilogram drums

**Freight Classification:**

Coating Solution Non-Flammable Liquid

#### RECOMMENDED PRIMERS

**FRP:**

SPUA-D100 Anticorrosive Primer @ 5~6 sq.m./1 Kg per coat

**EVA/PUF:**

None

**Concrete:**

SPUA-D400 Sealing Primer @ 8~10 sq.m./1 Kg per coat

**Others:** Contact us for a recommendation.

