

SPUA-102 Waterproofing Material

PRODUCT INFORMATION

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

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

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 ³

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 ³

PRODUCT CHARACTERISTICS

Color:	Optional
Solids:	100%
VOC(calculated):	0
Shelf Life:	6 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

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

RECOMMENDED PRIMERS

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

Freight Classification:

Coating Solution Non-Flammable Liquid

I

Qingdao Jialian New Chemical Materials Co.,Ltd.

16th Huishui Road Qingdao, 266100 CHINA

Tel: 86-532-86102366 Fax: 86-532-86102377 E-mail: qdjialian@163.com

SPUA-102 Waterproofing Material

APPLICATION INFORMATION

SURFACE PREPARATION

Surface must be properly prepared. Remove all oil, dust, grease, dirt, loose, and foreign materials to ensure adequate adhesion.

Concrete

Concrete surfaces prepared according to NACE standard RP0892-92. Patch and fill all cracks, voids and bugholes on old concrete with SPUA-N100 Rigid Filler. Allow substrate to dry thoroughly prior to priming (minimum substrate of new concrete cure is 28 day). Remove all from loose dust or other foreign matter and prime with primer SPUA-D400 Sealing Primer at 1~2 coats prior to spraying.

CURE TIME

Surface dry (25°C)	≤ 1 minute
Hard film (25°C)	≤ 10 minutes
Recoat time	Minimum unlimited Maximum ≤ 3 hours

Due to rapid cross-linking, recoating must be done as soon as the first coat is dry.

If maximum recoat time is exceeded, abrade surface before recoating.

Consult us for recommended recoat procedures.

APPLICATION CONDITIONS

Temperature:

Air and surface: -20°C~40°C

At least 3°C above dew point

Relative humidity: ≤ 90%

Materials must be preheated to 21°C prior to use.

Contact us for detailed application information.

CLEAN UP INSTRUCTIONS

Clean tools and equipment immediately after use with SPUA-PC Proportioner Cleaner or SPUA-GC Spray Gun Cleaner.

Consult *Plural Component Equipment Guide* for specific information.

APPLICATION EQUIPMENT

Plural Component Heated Spray Equipment (Required)

Equipment.....	Gusmer H-20/35
Gun.....	GX7 DI, GX7-400, or GX-8
Fluid Pressure.....	50--60kg/cm ²
Air Pressure.....	≥ 7kg/cm ²
Inlet Strainer Screen.....	30mesh
Gun Screen.....	80mesh
Heaters and heated hose.....	65°C
Mix Ratio.....	1:1

If specific application equipment is listed above, equivalent equipment may be substituted.

Contact us for specific information.

STORAGE CONDITIONS

- The A component is affected by moisture and must be protected from moisture contamination. Containers are factory sealed with an inert gas to prevent contamination. Keep all containers tightly closed during storage. For further storage after opening, containers must be purged with nitrogen gas or dry air and tightly sealed to protect from moisture contamination.
- Store drums and pails in a cold, dry and ventilated location between 15°C and 40°C
- Keep away from rain and sun
- Keep away from fire and heat source

Continued on back

SPUA-102 Waterproofing Material

APPLICATION INFORMATION

THINNING

DO NOT THIN!

MIXING INSTRUCTIONS

Thoroughly mix container of B component with an air-driven power mixer for a minimum of 5 minutes prior to application.

SAFETY PRECAUTIONS

Consult MSDS sheet before use. Use proper ventilation and respiratory equipment when spraying. Protect skin and eyes. Follow disposal methods in accordance with local and federal disposal regulations.

This product is intended for industrial use by properly trained professional applicators only.

Published technical data and instructions are subject to change without notice. Contact Us representative for additional technical data and instructions.