

TECHNICAL DATE SHEET

WDPROOF-S POLYUREA ELASTOMERS

PRODUCT INFORMATION

PRODUCT DESCRIPTION

WDPROOF-S is a fast-set, high performance, spray-applied based on amine-terminated polyether resins, amine chain extended, plural component, pure polyurea elastomer. This system consists of two components: Part A is the polyurea elastomer, and Part B is the isocyanate prepolymer. It provides a cost-effective, flexible, tough, resilient monolithic membrane with water and chemical resistance.

- 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

Coating for steel or other substrate exposed to corrosion. Liner for concrete tanks, concrete floors, ponds, lagoon, reservoirs, dikes, irrigation ditches, tunnels, barges, etc.

- Encapsulation for asbestos, lead paint, or other dry hazardous materials
- Replace or repair failed existing sheet membrane liners.
- Earthen containment used with or without geotextile.
- Steel tanks, silos, and pipes.
- Concrete parking decks.
- Rock shield for pipelines.
- Wastewater containment.
- Coating over geotextile fabric for primary/secondary containment.

PRODUCT CHARACTERISTICS

Color: *Optional*
Solids: *100%*
VOC(calculated): *0*
Shelf Life: *6 months, unopened at 15~40°C*
Flash Point: *>200°C*
Gel time: *10-60 seconds*
Mix Ratio (by volume): *1 : 1*
Recommended Spreading Thickness: *1~20mm*

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

PERFORMANCE CHARACTERISTICS

Tensile Strength: *18MPa*
Tensile Elongation: *400%*
Tear Strength: Durometer *81KN/m*
Hardness: *Shore A-92*
Impact Resistance: *1.5Kg•m*
Adhesion: *2.5MPa*
Abrasion Resistance: *35mg*
Salt Spray Corrosion (2000hrs):
Blister – None Corrosion – None Spalling – None
Chemical Resistance: *Consult Chemical resistance Chart for specific information*
Specific Gravity: *1.05g/cm³*

ORDERING INFORMATION

Packaging:

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

Freight Classification:

Coating Solution Non-Flammable Liquid

RECOMMENDED PRIMERS

Others: Contact us for a recommendation.

TECHNICAL DATE SHEET

WDPROOF-S POLYUREA ELASTOMERS

APPLICATION INFORMATION

SURFACE PREPARATION

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

Steel

Surfaces must be a "near white metal" blast to SIS-Sa 2 1/2 with a 3 mil profile. Steel surfaces shall be dry and clean, free from any dirt, grease, oil and other contamination before priming and 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 dewpoint

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 WDPROOF-S Proportioner Cleaner or WDPROOF-S Spray Gun Cleaner.

Consult *Plural Component Equipment Guide* for specific information.

APPLICATION EQUIPMENT

Plural Component Heated Spray Equipment (Required)

Equipment.....	Gusmer H-20/35/GRACO H-XP3
Gun.....	Graco MP/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

Quality Create the Trust
SINO UNION WATERPROOF
Welcome to visit our website:
<http://www.sinowaterproof.com>

Overseas Business Division
Address: Room802, Building 18, No.728 Tonghe Road, Laoshan District, Qingdao, Shandong
Tel: 008618561872032
Email: zack@sinowaterproof.com