YUXI

HIGH-SOLIDS POLYASPARTIC COATING FOR WATERPROOFING & SEALING

M-602

AMPP CORPORATE MEMBER

www.yuxi-anode.com

High-Solids Polyaspartic Coating for Waterproofing and Sealing M-602

YUXI's M-602 polyaspartic waterproofing coating stands as a premium, two-component, room-temperature curing coating, primarily formulated with a blend of polyaspartic ester resin and aliphatic isocyanate. M-602 prides itself on its high solid content and low viscosity formula, coupled with exceptional durability, outstanding abrasion resistance, and robust chemical resistance. Whether you're upgrading your industrial space or commercial facility, it offers long-lasting waterproofing and protective properties, making it an ideal choice for a wide range of applications.

ADVANTAGES

- Environmental friendliness: high solids, lower volatile organic compounds (VOCs)
- Excellent color and gloss retention : offer exceptional glossy and attractive appearance to improve visual appeal
- Superior weather resistance and UV stability: withstand harsh conditions, including UV exposure, moisture and temperature fluctuations, without compromising their performance
- High-performance water insulation capability: seal against the penetration of the moisture and water
- Outstanding chemical and stain resistance: form a robust protective layer that resists to oil, grease and strong detergents
- Exceptional durability and longevity

FIELD OF USE

YUXI's polyaspartic coating can be successfully applied on the substrates in the following:

- Cementitious substrates, such as concrete surface, cement board, mortar, etc.
- High porous substrates, such as brick, marble and natural stones
- Non-porous substrates, such as ceramic tiles or other masonry structure
- Wooden surfaces, such as parquet floor or otherwise
- Cement-bound substrate coated with primer and epoxy

* For application to other substrates or scopes of use, please contact our technician for further information.

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PRACTICAL APPLICATION

YUXI's M-602 polyaspartic coating is utilized as an over-coating or a direct coating for construction projects that demand high standards of waterproofing, abrasion resistance, and aging resistance. It is suitable for a wide range of applications, including roofing, basement and various industrial facilities.

Sealing for residential areas that requires a high-performance waterproofing membrane, such as roofs, terraces, balconies and verandas

Extra protection and decoration for interior or exterior concrete wall where long-lasting protective barrier against fading and scratches are required

External blocking and sealing protection for surfaces where requires strong paint against the penetration of UV rays, moisture and water, such as silo shell, demineralized water tank exterior, etc.

Waterproofing and added durability for areas required resistance to chemicals and stains, such as sewage pool, settling tank, etc.

Water insulation and visual enhancement for public facilities, such as playground, stadium stands, bleachers, podium deck, etc.

Defensive barrier for commercial facilities subject to stringent hygiene requirements, such as aquatic show tank, water stage, swimming pool, etc.

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TECHNICAL CHARACTERISTICS

Component Properties

	Component A	Component B
Type	Base	Hardener
Composition	Isocyanate Trimer	Polyaspartic Ester Resin
Consistency	Liquid	Fluid
Color	Yellowish	White, Green, Blue
Weight	18 kg	18 kg
Packaging	Metal Pail	Metal Pail

* Other RAL colors are available on request.

Physical Properties

The parameters are given under specific test conditions in accordance with the requirements specified in the T/CWA 204-2021 standards

Technical Measurement	Performance
Tensile Strength	12.4 MPa
Elongation at Break	320%
Tear Strength	58 N/mm
Hardness (Shore A)	75
Abrasion Resistance (Taber Test)	20 mg (750g load/500r)
Impact Resistance	1 kg•m
Flexibility	No Cracking (@-35℃)
Water Absorption	1.4
Water Permeability	Impermeable (0.3 MPa, 2 hrs.)
Coefficient of Thermal Expansion (CTE)	0.3
Flammability Class	B2
Bond Strength	3 MPa
Exposure to Artificial Atmospheric Agents	No Swelling, No Chalking

Chemical Properties

The results are performed under lab controllable conditions. These values may vary based on the application, climatology, or substrate conditions.

Technical Measurement	Performance
A/B Ratio (by weight)	1:1
Solids Content	75%
VOC Content	<2 g/L
Theoretical Coverage	0.15 kg/m² (at 100 μm dry film thick)
Dry Film Thickness (DFT)*	60-100 μm
Pot Life	45 minutes (25 ℃, RH 55%)
Tack-free Time	2 hour
Dry-through Time	24 hours
Overcoat Intervals	2～48 hours

*Actual required DFT may vary in certain applications, please contact us for technical clarification.

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Chemical Resistance

The results are performed under lab controllable conditions. These values may vary based on the application, climatology, or substrate conditions.

Chemical Substance	Concentration	Contact Time	Rusting	Blistering	Flaking
Sulphuric Acid (H_2SO_4)	5%	168 h	No	No	No
Sodium Hydroxide (NaOH)	5%	168 h	No	No	No
Salt Spray	/	1440 h	No	No	No
Moisture	/	14 d	No	No	No

Notice: The technical data contained herein are true and accurate to the best of our knowledge. Published technical data are subject to change without prior notice. Test report issued by the third-party accredited laboratory is available upon request.

APPLICATION INSTRUCTIONS

Surface Preparation

All surfaces should be prepared accordingly depending on the type of substrate, for example by brushing, rubbing, sand blasting, shot blasting, scarifying, bush hammering. For optimum adhesion, the substrate must be sound, dry and clean. Remove all loose materials and contaminants, such as dirt, dust, debris, rust, grease, oil, wax, etc. Substrate temperature during application should be at least 3°C (5°F) above dew point.

Priming

The substrate must be treated with suitable prime. If needed, mid coat can be applied.

Mixing

Thoroughly premix component B prior to use. Then mix component A with the component B in the indicated mixing ratio till homogenous mixture is obtained. The material may be diluted with specified solvent as directed.

Equipment

Our polyaspartic coating can be applied by brush, roller, air sprayer, and airless sprayer. All tools should be cleaned immediately after use.

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STORAGE

Store the product in a dry, ventilated, covered area at temperatures between 5˚C and 35˚C. Protect from heat, frost and direct sunlight. The shelf life is 12 months from the date of production under suitable storage conditions in its original sealed packing. Once open, use it immediately. Opened containers can be resealed, but the material shelf life will ultimately shorten.

SAFETY PRECAUTIONS

Carefully read and follow all instructions on the safe handling and disposal of chemical products.

- **Warning:** This product contains organic solvent, which may cause skin irritation and inhalation can be toxic. Avoid contact with eyes and skin.
- **Eye protection:** Wear safety goggles to prevent splashing and exposure to particles in the air. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- **Skin protection:** Wear suitable protective clothing and gloves. In case of skin contact, wash with thoroughly soap and plenty of water. Get medical attention if irritation develops or persists.
- **Respiratory protection:** Adequate ventilation of the working area is recommended. When spraying, use an air-purifying respirator to protect the respiratory tract.
- **Fire prevention:** This product is flammable. In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.
- **Waste disposal:** The product is hazardous for aquatic life, do not dispose of the product down the drain. Follow and observe any applicable local or national laws and regulations.

For further and complete information about the safe use of our product, please refer to the latest version of our Material Safety Data Sheet (MSDS).

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