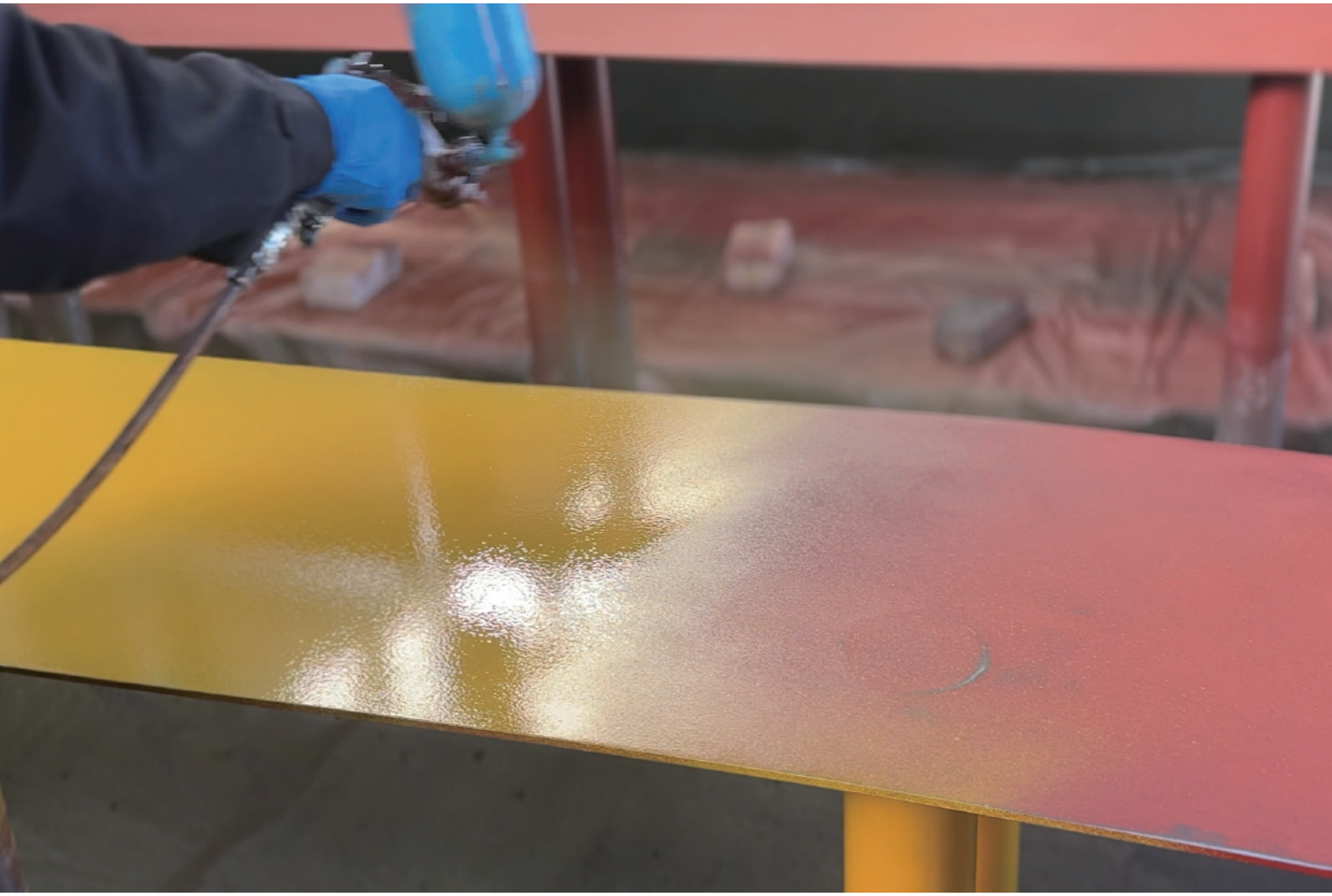
YUXI

HIGH-SOLIDS POLYASPARTIC COATING FOR CORROSION PROTECTION

M-601



AMPP CORPORATE MEMBER

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High-Solids Polyaspartic Coating for Corrosion Protection M-601

YUXI's M-601 polyaspartic coating is two-component, non-yellowing, solvent based coating designed for interior or exterior areas requiring robust corrosion resistance. It blends polyaspartic ester resin with aliphatic isocyanate, enriched with pigments, fillers, and auxiliaries. This coating boasts high-solids content and low viscosity, providing exceptional durability with excellent ultraviolet and weathering characteristics, as well as good chemical resistance that will cure at room temperatures. It is used as a protective topcoat in a wide variety of applications ranging from residential spaces to commercial facilities and industrial environments.

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
- Outstanding chemical and stain resistance: form a robust protective layer that resists to oil, grease and strong detergents
- Good abrasion and impact resistance: withstand heavy traffic and other types of wear and tear without cracking or peeling
- Fast application and quick curing: can be fully cured and ready for use as little as 1-3 hours, making them ideal for fast-paced environments
- Exceptional durability and longevity

FIELD OF USE

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

- Ferrous metal surface, such as carbon steel, cast iron, galvanized steel, stainless steel, etc.
- Non-ferrous metal surface, such as aluminum alloy, copper, bronze, tin, etc.
- Metal framework coated with primer and epoxy
- Rusted areas that have been prepared by removing rust and other debris

* 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-601 polyaspartic coating can be field brush or spray coated on cleaned metals either as a direct coating or as an over-coating applied over an existing structural epoxy basecoat and primer. It has proven capability to block solar UV penetration and seal off the ingress of moisture, water, salt-fog, salt-spray, and industrial corrosive gases (such as sulfides, nitrides and CO_2) that can affect the structure.

Exterior protection of oil and gas storage tanks to defend against corrosive elements that can be prevalent in a refinery environment

Heavier pigmented coating for extra outside protection of metal pipelines with existing epoxy coatings

Effective conformal coatings for metal frameworks or skeletal structures used in industrial buildings

Protective barrier for fencing and gates to enhance the appearance and durability

Safe and vibrant finish for playground equipment ensuring longevity and visual appeal

Direct coating applied over outdoor furniture providing unparalleled wear and abrasion resistance

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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	Silver Gray,Bright Yellow
Weight	9 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 HG/T 5368-2018 standards

Technical Measurement	Performance
Scratch Hardness	2H
Abrasion Resistance (Taber Test)	15 mg (1000g load/1000r)
Impact Resistance	50 kg•m
Mandrel Bending Test	Pass
Adhesion Strength	10.5 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)	1:2
Solids Content	80%
VOC Content	50 g/L
Theoretical Coverage	0.15 kg/m² (at 100 μm dry film thick)
Dry Film Thickness (DFT)*	100-200 μm
Pot Life	30 minutes
Tack-free Time	1 hour
Dry-through Time	4 hours
Overcoat Intervals	0.5～48 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	Corrosion Class C4-C5	1440 h	No	No	No
Moisture	Corrosion Class C4-C5	720 h	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 to be coated must be dry, clean and free from contamination. To ensure proper adhesion, rusted areas must be treated by an abrasive blast to SA 2½ in accordance with international standard ISO 8501:2007 and SSPC-SP10. A sharp angular profile of 50-70 microns is recommended. 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.

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.

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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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