YUXI

ULTRA-DURABLE SPRAY-ON POLYUREA COATING FOR SPEAKER CABINETS

P-150E



AMPP CORPORATE MEMBER

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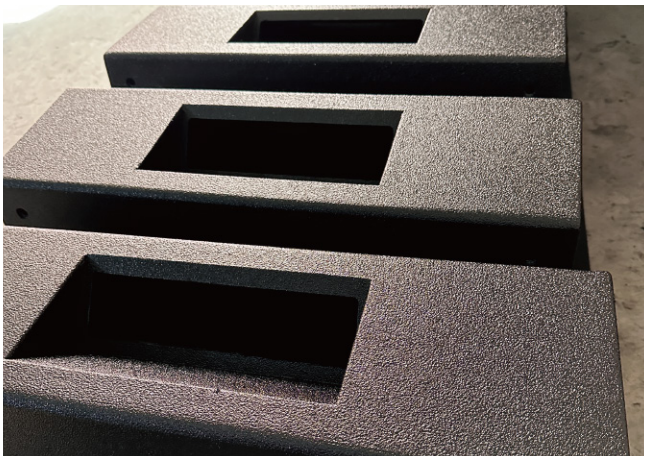
YUXI's P-150E spray-applied polyurea coating is made from a blend of isocyanate prepolymer and polyether amines. This powerful coating rapidly cures in an instant, forming a seamless and resilient finish with notable durability and excellent properties. Compared to tradiontal painting, our polyurea coating is highly resistant to impact, abrasion, weather, moisture and chemicals. When coated on the wooden speaker cabinet enclosure, it acts as a shield, significantly extending the service life of stage speakers or outdoor speakers which are subject to harsh weather and complex environments. Thanks to its variability in texture, this coating has been time-tested to be a great topcoat that greatly increases stunning aesthetics for speaker appearance.

ADVANTAGES

- Consecutive and seamless coating film
- High tensile and tear strength
- Excellent sealing capability against the penetration of the moisture and water
- Superior abrasion resistance to withstand scratches and collision
- Optimum UV resistance to inhibit fading and yellowing
- Outstanding resistance against chemical corrosion
- Extremely fast-setting for a quick turnaround
- Excellent hybrid spraying characteristics allows for easy application
- Exceptional durability and longevity







FIELD OF USE

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

- Wooden surfaces, such as solid wood, medium density fiberboard (MDF), birch plywood, particle board, etc.
- Metal surface, such as steel, aluminum, etc.
- Plastics surface, such as polypropylene (PP), polycarbonate (PC), polyvinyl chloride (PVC), polystyrene (PS), acrylonitrile butadiene styrene (ABS), etc.

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

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TECHNICAL CHARACTERISTICS

Component Properties

	Component A	Component B
Type	Base	Hardener
Composition	Isocyanate Prepolymer	Polyether Amines
Consistency	Liquid	Fluid
Color	Yellowish	Black
Weight	220 kg	210 kg
Packaging	Metal Barrel	Metal Barrel

* 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 3831-2006 (2017) standards.

Technical Measurement	Performance
Tensile Strength	≥ 20 MPa
Elongation at Break	≥ 50%
Tear Strength	≥ 60 N/mm
Hardness (Shore D)	≥ 50
Abrasion Resistance (Taber Test)	5 mg (750g load/500r)
Impact Resistance	1 kg•m

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 volume)	1:1
Solids Content	98%
Theoretical Coverage	1.07 kg/m² (at 1 mm dry film thick)
Gel Time	5~10 seconds

*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)	10%	30 d	No	No	No
Hydrogen Chloride (HCl)	10%	30 d	No	No	No
Sodium Hydroxide (NaOH)	10%	30 d	No	No	No
Sodium Chloride (NaCl)	3%	30 d	No	No	No
Salt Spray (NaCl)	50g/L	2000 h	No	No	No
Distilled Water	/	30 d	No	No	No
Petrol	/	30 d	No	No	No
Diesel Fuel (0#)	/	30 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.

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. Do not add solvents or thinners.

Equipment

Our polyurea coating should be sprayed using a regulated high-pressure, high-temperature two-component airless spray rig. 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 isocyanate MDI, 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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