



DEEP PENETRATING POLYURETHANE PRIMER FOR CONCRETE SUBSTRATE

D-501



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Deep Penetrating Polyurethane Primer for Concrete Substrate

D-501

YUXI's D-501 polyurethane primer is a two-component, solvent based primer with high penetration capability used over various concrete substrates and non-metal substrates. Acts as a superior sealer and bonding agent, this primer is designed to soak into the substrate, providing excellent adhesion of subsequent topcoats. It reduces any risk of delamination due to poor penetration of heavy topcoats.

ADVANTAGES

- High film density, excellent compactness
- Low viscosity for deep penetration
- Superior adhesion to cementitious substrate and overlapping membrane
- Strong sealing ability
- Fast curing at room temperature
- Exceptional durability and longevity

FIELD OF USE

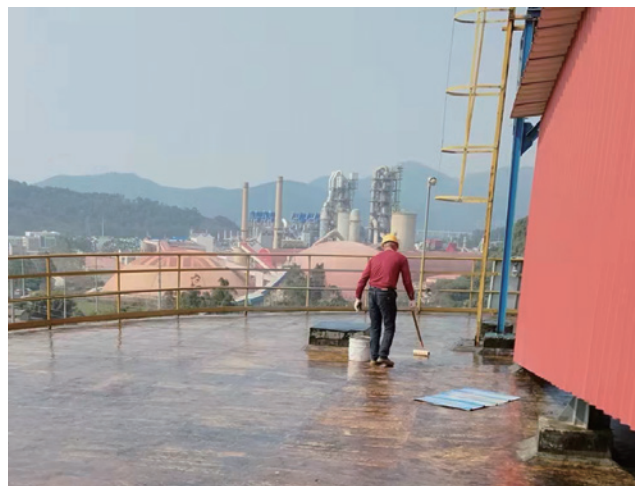
This polyurethane primer can be successfully applied on a broad range of non-metal substrates in the following :

- Concrete or cementitious surfaces
- Cement board
- Mortar surfaces
- Masonry structures
- Marble and natural stones
- Ceramic tiles

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

PRACTICAL APPLICATION

Our primer can be used on bare or painted concrete structures including concrete walls, concrete floors, concrete roofs, concrete decks, concrete piers, etc.



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TECHNICAL CHARACTERISTICS

■ Component Properties

	Component A	Component B
Type	Base	Hardener
Composition	Modified MDI Polymer	Epoxy Resin
Consistency	Liquid	Fluid
Color*	Brownish	Yellowish
Weight	18 kg	12 kg
Packaging	Metal Barrel	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 JC/T 2252-2014(2017) standards.

Technical Measurement	Performance
Viscosity	72 mPa.s
Bond Strength (to Dry Surface)	4.5 MPa
Peel Strength (to Dry Surface)	6.2 N/mm
Retention Rate of Adhesion After Water Immersion	75%
Retention Rate of Adhesion After Thermal Aging	164%
Retention Rate of Tear Strength Subjected to Freeze-Thaw (FT)	85%

■ 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)	3:2
Solids Content	51%
Theoretical Coverage	0.13 kg/m ² (at 50µm dry film thick)
Dry Film Thickness (DFT)*	40~60 µm
Pot Life	1 hour (@25 °C, RH 55%)
Tack-free Time	1 hour
Dry-through Time	2 hours
Overcoat Intervals	2~48 hours

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

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.



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APPLICATION INSTRUCTIONS

■ Surface Preparation

All surfaces to be coated must be dry, clean and free from contamination. Visible defects and cracks on the substrate must be repaired beforehand. The primer shall be applied on a substrate with a moisture content of no more than 10%. Substrate temperature during application should be at least 3°C (5°F) above dew point.

■ 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.

■ Equipment

Our polyurethane primer 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.

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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