

Transparent Universal Epoxy **Data Sheet**

Product Overview:

ResinTech TUE (Transparent Universal Epoxy) is a top-tier, 100% solids, two-component epoxy system engineered to deliver outstanding UV resistance, excellent abrasion resistance, and enduring durability. Designed to retain its clarity and gloss even under extended UV exposure, this epoxy is perfect for applications requiring robust protection and aesthetic enhancement.

Suggested Applications:

- Industrial and commercial flooring
- Warehouses and storage areas
- Garages and automotive service facilities
- Manufacturing plants
- Surfaces exposed to sunlight
- Decorative concrete coatings
- Parkade re-coat applications
- Automotive service & wash bays
- Car washes
- Commercial kitchens
- Loading docks
- Mechanical rooms
- Food & beverage – canning, bottling, & distribution
- Educational environments – laboratories, locker rooms, restrooms, pool decks, and more
- Medical/pharmaceutical – laboratories, locker rooms, water therapy rooms, restrooms, corridors, and more

Key Benefits:

- **UV Resistance:** Maintains gloss and clarity, preventing yellowing under prolonged UV exposure.
- **100% Solids Content:** Ensures superior coverage and durability, reducing the need for multiple applications.
- **High Gloss Finish:** Provides an appealing, resilient surface that enhances the appearance of the substrate.
- **Chemical Resistance:** Protects against a variety of chemicals, including acids, alkalis, solvents, and oils.
- **Abrasion Resistance:** Withstands heavy traffic and mechanical wear for long-term performance.

Application Guidelines:

- **Surface Preparation:** Ensure the surface is clean, dry, and free from contaminants. Abrade the surface if needed to enhance adhesion.
- **Mixing Instructions:** Combine Part A and Part B at the specified 2:1 ratio by volume in a clean container. Mix thoroughly for 3-5 minutes, ensuring a uniform blend.
- **Application:** Apply the mixed epoxy with a roller, squeegee, or appropriate spray equipment. Follow the recommended coverage rate for optimal thickness.
- **Curing:** Allow the coating to cure as specified. Avoid foot traffic until the epoxy has adequately hardened.

Safety and Handling:

- Ensure adequate ventilation during application and curing.
- Use personal protective equipment (PPE), such as gloves, goggles, and respirator.
- Avoid contact with eyes and skin. In case of contact, rinse thoroughly with water and seek medical attention if necessary.
- Keep out of reach of children.

Storage and Shelf Life:

- Store in a cool, dry place at around 25°C. Avoid exposure to direct sunlight, high temperatures, or high humidity.
- Use the product promptly after opening. Seal the container tightly to prevent moisture absorption and contamination.
- The shelf life is ten months when stored at 25°C.

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TECHNICAL DATA

Property	Value
Appearance	Clear or pigmented
Solids Content	Solids Content
Mix Ratio	2:1 (by volume)
Pot Life	40-60 minutes at 70°F (21°C)
Recoat Time	14-18 hours at 70°F (21°C)
Full Cure Time	Light foot traffic in 24 hours, full cure in 7 days
Application Temperature	50°F to 90°F (10°C to 32°C)
Coverage	160-200 sq. ft. per gallon at 8 mils (200 microns) DFT

Performance Characteristics:

Property	Value
Hardness (Shore D)	82-85
Adhesion	>400 psi (ASTM D4541)
Abrasion Resistance	<25 mg loss (ASTM D4060, CS-17 wheel, 1,000 cycles)
Chemical Resistance	Resilient against a range of chemicals
Flexural Strength	75 MPa
Volume Resistivity	$1.2 \times 10^{14} \Omega \cdot \text{cm}$
Surface Resistance	$5 \times 10^{15} \text{ Ohm}$
Moisture Absorption	<0.1%