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Truck-Specific Glossy Topcoat (Two-Component) (ZFZ-TRUCK-4000) Technical Data Sheet (TDS)

Truck-Specific Glossy Topcoat (Two-Component)

Product Number: ZFZ-TRUCK-4000

Product Type: Two-Component Acrylic Polyurethane
Glossy Topcoat

1. Product Description

This product is a high-performance, two-component acrylic polyurethane glossy topcoat, formulated with an aliphatic isocyanate hardener and hydroxy acrylic resin. The coating provides exceptionally high gloss, excellent weather resistance, scratch resistance, and chemical resistance. It is specially designed to deliver a mirror-like decorative finish and long-term outdoor protection for truck bodies, trailers, and special-purpose vehicles.

2. Main Applications

- Glossy topcoat for commercial vehicles such as truck bodies, trailers, flatbed trucks, and special-purpose vehicles.
- Suitable as a topcoat for vehicle refurbishment, repair, and newly manufactured vehicles.
- Ideal for industrial equipment and construction machinery topcoats where high gloss and excellent weather resistance are required.

3. Key Performance Features

- **High Gloss and Fullness:** Smooth, mirror-like film with a gloss ≥ 95 GU, providing excellent decorative effect.
- **Outstanding Weather Resistance:** Aliphatic polyurethane structure resists fading and chalking during long-term outdoor exposure.
- **Strong Scratch Resistance:** High film hardness ensures durability against car washes and abrasion.
- **Chemical Resistance:** Resistant to gasoline, diesel, engine oil, and mild acids and alkalis.
- **Easy Application:** Suitable for spray application, fast drying, and excellent compatibility with matching systems.

Technical Parameters:

Item	Specification	Test Standard / Method
Color	Transparent or any color (adjustable)	Visual comparison
Gloss (60°)	≥ 95 GU	ASTM D523
Volume Solids	55% \pm 2%	ISO 3233
Density (after mixing)	Approx. 1.10 kg/L	ASTM D1475
Mixing Ratio (by weight)	Base : Hardener = 4.5:1	Internal method
Typical Dry Film Thickness	40–60 μ m (per coat)	—

Theoretical Coverage (based on 50 µm DFT)	Approx. 10.0 m ² /kg	—
VOC Content	≤480 g/L	EPA Method 24
Flash Point	≥25°C	ISO 3679 / ASTM D93
Drying Time (25°C, 50% RH)	Surface dry: ≤120 min; Through dry: ≤24 h; Full cure: 7 days	ASTM D1640
Recoat Interval (25°C)	Minimum: 4 h; Maximum: unlimited (on clean surface)	—

4. Application Instructions

- **Primer:** Epoxy primer for galvanized steel (HY-8003) / Anti-rust gray-white primer (FS-9109Q) with hardener (optional)
- **Intermediate Coat:** Polyurethane topcoat for truck bodies or acrylic topcoat for truck compartments
- **Glossy Topcoat:** This product, ZFZ-TRUCK-4000 Truck-Specific Glossy Topcoat
- **Typical Film Thickness Scheme (Truck):** Primer 60–80 µm + Intermediate coat 40–60 µm + Glossy topcoat 40–60 µm (two coats)

5. Surface Preparation

Item	Requirement
Degreasing	Thoroughly remove oils, grease, and dust from the substrate using a specialized cleaner or solvent.
Rust Removal (New Steel)	Perform sandblasting to Sa2.5 grade (ISO 8501-1), with surface roughness of 30–75 µm.
Old Coating Renovation	Abrade well-adhered old coatings to create a roughened surface; remove loose coatings and contaminants.
Surface Condition	Clean, dry, free of oil, dust, and water marks.
Note	Substrate temperature should be at least 3°C above the dew point and not lower than 5°C.

6. Application Guidelines

Item	Requirement
Mixing	Use a power stirrer to thoroughly mix the base component (Part A). Add the hardener (Part B) according to the recommended ratio and mix thoroughly until uniform. Allow to mature for 5–10 minutes before use.
Pot Life (25°C)	4 hours
Thinner	Polyurethane-specific thinner (recommended: JZ-T300)
Thinning Ratio (based on mixed paint volume)	Airless spraying: 15–25%; Air spraying: 15–30%; Brushing / Rolling: not recommended
Airless Spraying	Nozzle size: 0.38–0.48 mm; Pressure: 13–16 MPa
Air Spraying	Nozzle size: 1.0–1.5 mm; Pressure: 0.3–0.5 MPa
Forced Drying	Bake at 80°C for 30 minutes for rapid curing, suitable for assembly line operations

7.Safety and Precautions

- This product contains organic solvents. Ensure good ventilation during application and wear protective gloves, safety goggles, and a respirator.
- Avoid direct skin contact and inhalation of vapors. In case of contact, rinse immediately with plenty of water and seek medical attention if necessary.
- Keep away from open flames, heat sources, and sparks during storage and use.
- Do not mix with water or oily contaminants; keep containers tightly sealed after use.
- Application is not recommended at temperatures below 5°C or relative humidity above 85%.
- Ensure the anti-fouling coating is fully dry (typically over 24 hours) before immersion in water.
- Dispose of empty containers and residual materials in accordance with local environmental regulations.

8.Packaging, Storage and Shelf Life

- **Packaging:** Base component: 20 kg per drum (approx. 18.2 L); Hardener: 4.5 kg per drum (approx. 4.1 L) (calculated based on a density of 1.10 kg/L, matching the 4.5:1 ratio)
- **Storage Conditions:** Store in a cool, dry, and well-ventilated place, away from fire and oxidizers, and avoid direct sunlight. Storage temperature: 5–35°C
- **Shelf Life:** 12 months (unopened)

Disclaimer:

All information provided in this Technical Data Sheet is based on our typical test data and experience. Actual performance may vary depending on application conditions, substrate preparation, and application methods. It is recommended to conduct a small-scale trial or consult our technical personnel before use. We reserve the right to modify the technical data without prior notice.

Technical Data Sheet

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