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# Modified Acrylic Topcoat for Truck Bodies( BXS-TRUCK-1000)

## Technical Data Sheet (TDS)

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Modified Acrylic Topcoat for Truck Bodies

Product Number: BXS-TRUCK-1000

Product Type: Single-Component Modified Acrylic Topcoat  
(Performance Improved with a Small Amount of GH-35  
Curing Agent)

### 1. Product Description

This product is a single-component, high-performance, modified acrylic topcoat specially designed for truck bodies. It is formulated with high-quality modified acrylic resins as the binder, combined with weather-resistant pigments and additives. The coating offers excellent weather resistance, long-lasting gloss and color retention, fast drying, and ease of application, specifically tailored for the demanding conditions of truck body surfaces.

### 2. Main Applications

- Truck bodies, including heavy-duty trucks, construction vehicles, special-purpose vehicles, and truck cabs.
- Appearance finishing for machinery, precision equipment, electrical facilities, and instrument housings.
- Protection of metal components and general industrial coating applications.
- Can be used as the topcoat in protective coating systems.

### 3. Key Performance Features

- **Weather Resistance:** Moderate UV resistance with some anti-chalking ability. Under normal outdoor conditions, the coating can maintain its color and appearance for 1–3 years without significant fading or chalking.
  - **Hardness and Wear Resistance:** Medium film hardness with above-average scratch and abrasion resistance, providing adequate protection for standard truck body use.
  - **Gloss and Color Retention:** Coating maintains long-lasting gloss and vibrant color, offering a good decorative effect.
  - **Fast Drying:** Quick-drying formulation shortens the overall application time.
  - **Ease of Application:** Can be applied by spraying, brushing, or rolling, suitable for a wide range of applications.
  - **Compatibility:** Works well with various primers and intermediate coats in coating systems.
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## Technical Parameters:

Item	Specification	Test Standard / Method
Color	Customizable according to RAL color card	Visual comparison (RAL color card)
Gloss	High gloss / Semi-gloss / Matte (customizable)	GB/T 9754
Volume Solids	56% ± 2%	ISO 3233 / GB/T 9272
Density	Approx. 1.20 kg/L	ASTM D1475 / GB/T 6750
Mixing Ratio	Single-component (small amount of GH-35 curing agent can be added)	Internal method
Typical Dry Film Thickness	50–80 µm	—
Theoretical Coverage	Approx. 9.7 m <sup>2</sup> /kg (based on 60 µm dry film thickness)	—
VOC Content	≤420 g/L	EPA Method 24 / ISO 11890-2
Flash Point	>25°C	ISO 3679 Method A / ASTM D93
Hardness	≥ H	GB/T 6739
Drying Time (25°C, 50% RH)	Surface dry: ≤60 min; Through dry: ≤8 h; Full cure: 24 h	ASTM D1640 / GB/T 1728

## 4. Recommended Coating System

- **Primer:** Zinc-plated steel epoxy primer HY-8003 / Anti-rust light gray primer FS-6109Q / Epoxy zinc-rich primer 60YH-8002
- **Intermediate Coat (optional):** Epoxy red iron oxide intermediate coat HY-01G
- **Topcoat:** Truck body modified acrylic topcoat BXS-TRUCK-1000

### Recommended Total Dry Film Thickness (DFT):

- Primer: 40–80 µm
- Intermediate coat: 80–120 µm
- Topcoat: 50–70 µm

## 5. Surface Preparation

- **Previous Coating:** Ensure that the primer and/or intermediate coat is fully dried, clean, and free of dust, oil, and contaminants.
- **Direct Application on Steel:** Steel surfaces must be prepared by **abrasive blasting to Sa 2** (ISO 8501-1) or **hand/tool cleaning to St 2** level.

## 6. Application Guidelines

Item	Specific Requirements
Mixing	Stir the base thoroughly before use. If GH-35 curing agent is required, add it according to the recommended ratio and mix thoroughly.
Pot Life (25°C)	Approximately 4 hours after adding the curing agent.
Thinner	Modified acrylic special thinner (recommended T-500).
Thinning Ratio	Airless spraying: 50–60%; Brush/roll coating: 0–10%.
Airless Spraying	Nozzle diameter 0.33–0.43 mm, pressure 10–15 MPa.
Brush/Roll Coating	Suitable for small-area touch-ups and edges; ensure even coating to avoid missing spots.
Item	Specific Requirements

## 7. Safety and Precautions

- Ensure that the previous coating is fully dry and the surface is clean before application.
- Application environment: Temperature above 8°C, relative humidity below 75%, and substrate temperature at least 3°C above the dew point.
- Avoid outdoor application during rain, snow, heavy fog, or strong winds.
- Ventilation and personal protection: This product contains organic solvents; ensure adequate ventilation and wear appropriate protective equipment during application.
- Two-component products must be mixed immediately before use and applied within the specified pot life.
- Curing agent is moisture-sensitive; seal and store immediately after use.

## 8. Packaging, Storage and Shelf Life

- **Packaging Specifications:**
  - Base: 20 kg per drum (≈16.6 L)
  - Curing agent GH-35: 4.5 kg per drum (≈4.2 L, must be purchased separately)
- **Storage Conditions:**  
Store in a cool, dry, and well-ventilated place, away from fire sources.
- **Shelf Life:**  
12 months (unopened, stored in original packaging at 5–35°C).

**Note:** Volume conversion is based on a density of 1.15 kg/L;  $20 \text{ kg} \div 1.15 \approx 17.4 \text{ L}$ . Actual volume may vary slightly due to temperature and other factors.

### 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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