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Single-Component Asphalt Paint (HY-02K)

Technical Data Sheet (TDS)

Single-Component Asphalt Paint

Product Number: HY-02K

Product Type: Single-Component Bituminous Coating

1. Product Description

This product is a single-component, high-performance bituminous coating, formulated with high-quality asphalt and special additives. It features excellent water resistance, acid and alkali resistance, and offers a cost-effective solution for general corrosion protection. It is suitable for steel pipes, storage tanks, and other facilities requiring standard anti-corrosion coating.

2. Main Applications

Anti-corrosion coating for the bottom of special containers, buried pipelines, and the exterior of oil and water transmission pipelines.

Protective coating for underwater parts of ships, such as below the waterline and hull.

Anti-corrosion coating for immersed environments, including wastewater treatment tanks, cooling towers, and the bottoms and inner walls of storage tanks.

Anti-rust and corrosion protection for steel structures, cast iron pipes, and other ferrous metal surfaces.

3. Key Performance Features

- Excellent water resistance: Forms a dense coating that does not blister or peel under long-term immersion.
- Resistance to acids, alkalis, and salts: Protects against seawater and corrosive chemical environments.
- Easy application: Single-component product, ready to use directly from the container without on-site mixing.
- Good adhesion: Provides strong bonding to steel surfaces.
- Cost-effective: High performance-to-cost ratio, suitable for large-area protective coatings.

Technical Parameters:

Item	Specification	Test Standard/Method
Color	Black	Visual / Internal Method
Gloss	Matte	GB/T 9754
Volume Solids	55% ±2%	ISO 3233 / GB/T 9272
Density	Approx. 1.25 kg/L	ASTM D1475 / GB/T 6750
Mixing Ratio	Single-component	Internal Method
Typical Dry Film Thickness	100–150 μm	–
Theoretical Coverage	Approx. 5.4 m ² /kg (based on 120 μm DFT)	–
VOC Content	≤400 g/L	EPA Method 24 / ISO 11890-2
Flash Point	>25°C	ISO 3679 Method A / ASTM D93
Drying Time (25°C, 50% RH)	Surface dry: ≤12 h; Through dry: ≤96 h; Full cure: 8 days	ASTM D1640 / GB/T 1728
Item	Specification	Test Standard/Method

4. Application Instructions

- **Primer:** Single-component asphalt paint HY-02K (self-priming)
- **Topcoat:** Single-component asphalt paint HY-02K (self-compatible)
- **Recommended Total Dry Film Thickness (DFT):** Primer: 80–120 µm + Topcoat: 80–120 µm + Total DFT ≥ 160 µm

5. Surface Preparation

- **Steel Substrate:**
Abrasive blast to Sa 2 level or manual cleaning to St 2 level.
Surface must be clean, dry, free of oil, grease, and loose rust.
- **Previous Coatings:**
Ensure the primer is fully dry.
Surface must be clean and dry before applying the next coat.

6. Application Guidelines

Item	Specific Requirements
Mixing	Stir thoroughly before use (single-component, no mixing required)
Pot Life (25°C)	Unlimited (single-component)
Thinner	Asphalt paint special thinner (recommended T-200)
Thinning Ratio	Airless spraying: 5–15%; Brush/Roller: 0–10%
Airless Spraying	Nozzle diameter 0.43–0.53 mm, pressure 10–15 MPa
Brush/Roller	Suitable for small-area repairs and edges; ensure uniform coating
Mixing	Stir thoroughly before use (single-component, no mixing required)

7. Safety and Precautions

- Ensure the substrate surface is clean, dry, free of oil, and free of loose rust before application.
- Application environment: temperature above 5°C, relative humidity below 85%, and substrate temperature at least 3°C above the dew point.
- Avoid outdoor application in rain, snow, heavy fog, or strong wind.
- This product contains organic solvents; maintain ventilation during application and wear protective equipment.
- For single-component products, avoid applying too thickly at once to prevent poor drying.

8. Packaging, Storage and Shelf Life

- **Packaging:** Base component: 20 kg/barrel (approx. 16.0 L)
 - **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 1.25 kg/L; 20 kg ÷ 1.25 ≈ 16.0 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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