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Anti-Corrosion Light Grey Primer (FS-6109Q) Technical Data Sheet (TDS)

Anti-Corrosion Light Grey Primer**Product Number: FS-6109Q**

**Product Type: Single-Component Anti-Corrosion Primer
(Enhanced performance when used with a small amount of
hardener)**

1.Product Description

This product is a high-performance anti-corrosion primer formulated with high-quality resins, combined with effective anti-rust pigments and additives. It offers excellent anti-corrosion performance, ease of application, and good adhesion. It is suitable for protective coating of steel substrates in general to moderate corrosive environments.

2. Main Applications

- For use as an anti-corrosion primer on steel structures such as factory buildings, machinery, pipelines, storage tanks, and other steel components.
- Suitable for truck bodies, metal products, metal components protection, and general industrial coatings.
- Can be used as a primer in general protective coating systems.

3.Key Performance Features

Good Anti-Corrosion Performance: Contains highly effective anti-rust pigments that effectively inhibit rust formation.

Strong Adhesion: Provides excellent adhesion to steel substrates as well as subsequent topcoats.

Fast Drying: Dries quickly, helping to shorten the application cycle.

Easy Application: Suitable for spraying, brushing, and rolling, offering wide application versatility.

Good Compatibility: Can be used in combination with various intermediate and topcoats.

Cost-Effective: Offers high cost performance, suitable for large-area protective coating applications.

Technical Parameters:

Item	Specification	Test Standard / Method
Color	Light grey	Visual comparison (internal method)
Gloss	Semi-matte	GB/T 9754
Volume Solids	70% ± 2%	ISO 3233 / GB/T 9272
Density	Approx. 1.35 kg/L	ASTM D1475 / GB/T 6750
Mixing Ratio (by weight)	Single-component	Internal method
Typical Dry Film Thickness	40–80 µm	—
Theoretical Coverage	Approx. 9.2 m ² /kg (based on 60 µm DFT)	—
VOC Content	≤ 350 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: ≤ 15 min; Hard dry: ≤ 4 h; Full cure: 24 h	ASTM D1640 / GB/T 1728

4. Recommended Coating System

- **Primer:** Anti-Corrosion Light Grey Primer FS-6109Q
- **Intermediate Coat:** Epoxy Micaceous Iron Oxide Intermediate Paint HY-01G (if required)
- **Topcoat:** Acrylic Polyurethane Topcoat / Alkyd Topcoat / Epoxy Topcoat

Recommended Total Dry Film Thickness:

Primer 50–80 µm + Topcoat 40–60 µm

5. Surface Preparation

- **Steel Substrate:**
Abrasive blasting to Sa 2 grade or manual cleaning to St 2 grade. The surface must be clean, dry, and free from oil and rust.
- **Previous Coating:**
Ensure the primer is completely dry and the surface is clean and dry.

6. Application Guidelines

Item	Requirements
Mixing	Stir thoroughly before use. If adding a hardener, mix according to the recommended ratio and stir evenly.
Pot Life (25°C)	Approximately 4 hours after adding hardener
Thinner	Special thinner (recommended: T-200)
Thinning Ratio	Airless spraying: 30–50%; Brush/Roller: 0–10%
Airless Spraying	Nozzle size: 0.38–0.53 mm; Pressure: 10–15 MPa
Brush / Roller	Suitable for small-area touch-up and edges; ensure even application

7.Safety and Precautions

- Ensure the substrate surface is clean, dry, and free from oil and loose rust before application.
- Application conditions: temperature above 5°C, relative humidity below 85%, and substrate temperature at least 3°C above the dew point.
- Avoid outdoor application in rainy, snowy, foggy, or strong wind conditions.
- This product contains organic solvents; ensure adequate ventilation and wear appropriate protective equipment during application.
- For single-component products, avoid applying excessively thick coats at one time to prevent improper drying.
- If a hardener is added, mix only what is needed and use within the pot life.

8.Packaging, Storage and Shelf Life

Packaging, Storage and Shelf Life

Packaging:

Base: 20 kg/drum (approx. 14.8 L)

Storage Conditions:

Store in a cool, dry, and well-ventilated place. Keep 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 1.30 kg/L.

20 kg ÷ 1.30 ≈ 15.4 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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