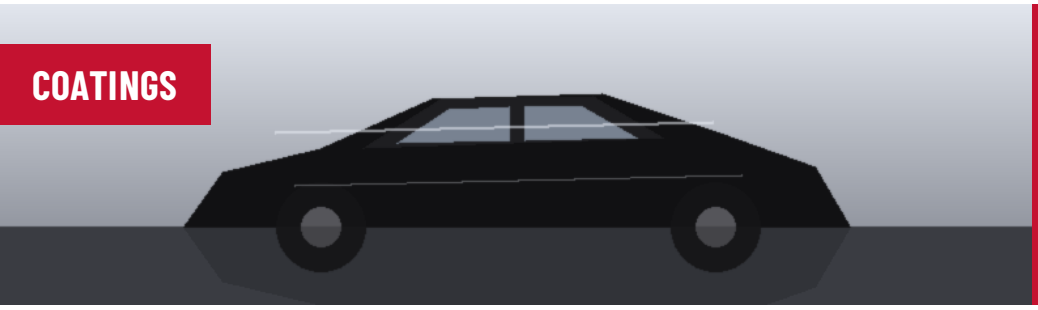
# TECHNICAL DATA SHEET




## EMPIREX
Series

# EMPIREX 37

**EMPIREX 37** is a high-colour, after-treated specialty carbon black engineered for the highest level of jetness in premium coating systems. Its very fine primary particle size and high surface area give exceptional light absorption — deep masstone blackness with a high jetness (MY) and clean bluish undertone (positive dM). In typical stoving enamels at around 5% on binder, grades of this class reach masstone MY values near 295.

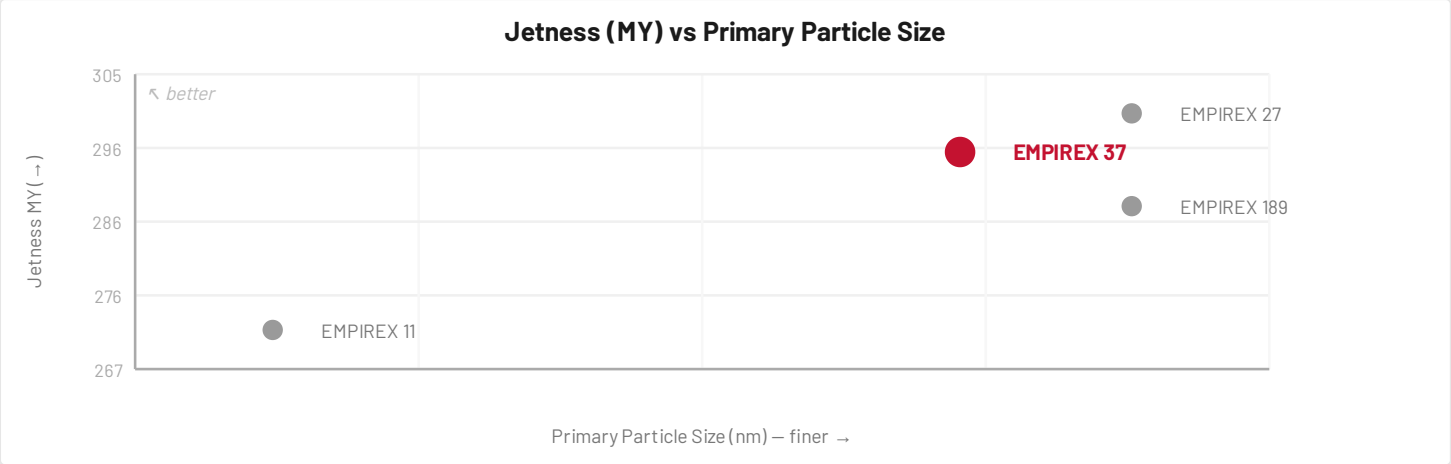
Surface oxidation raises polarity for stable wetting and dispersion in solvent- and water-borne binders, with low flocculation tendency. EMPIREX 37 is used at 3–6% on binder for mass-tone work; intensive bead-mill dispersion fully develops its colour. Smaller particle size also raises surface area, giving better UV protection of the binder.

## KEY APPLICATIONS

- Automotive exterior basecoats
- Premium architectural & decorative coats
- High-jetness industrial coatings
- Mass-tone & metallic/effect tinting
- Wood, coil & electronics coatings

## PERFORMANCE FEATURES

- Highest-class masstone jetness (high MY)
- Strong bluish undertone (positive dM)
- Very fine particle, high surface area
- After-treated for polarity & wetting
- Better UV protection of binder
- 3–6% on binder; bead-mill dispersion




## TYPICAL VALUE

| Test Items | Unit | Standard |
|---|---|---|
| Physical Form | – | **Powder** |
| DBP Absorption No. | cc/100g | **106 ± 6** |
| BET Surface Area | $m^2/g$ | **394 ± 7** |
| PH Value | | **2.5 ± 1** |
| Tint Strength | % | **131 ± 6** |
| Average Original Particle Size | nm | **15 ± 2** |
| Volatile Content | % | **≥ 8.5** |

## APPLICATION FIELD

| Application | Recommended Dosage |
|---|---|
| Automotive Exterior Basecoats | 4 – 6% |
| Premium Architectural Finishes | 3 – 5% |
| High-Jetness Industrial Coatings | 3 – 5% |
| Wood & Electronics Coatings | 3 – 5% |
| Pigment Concentrates (mass tone) | 5 – 10% |
| Tinting in Premium Systems | 1 – 3% |

Recommended dosage (% on binder) can vary depending upon formulation and dispersion conditions.
**Physical Form: Powder | Packaging: 10 kg paper or PE bag**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**Notice and Disclaimer**

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