

COATINGS

EMPIREX Series

EMPIREX 189

EMPIREX 189 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 288.

Surface oxidation raises polarity for stable wetting and dispersion in solvent- and water-borne binders, with low flocculation tendency. EMPIREX 189 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.

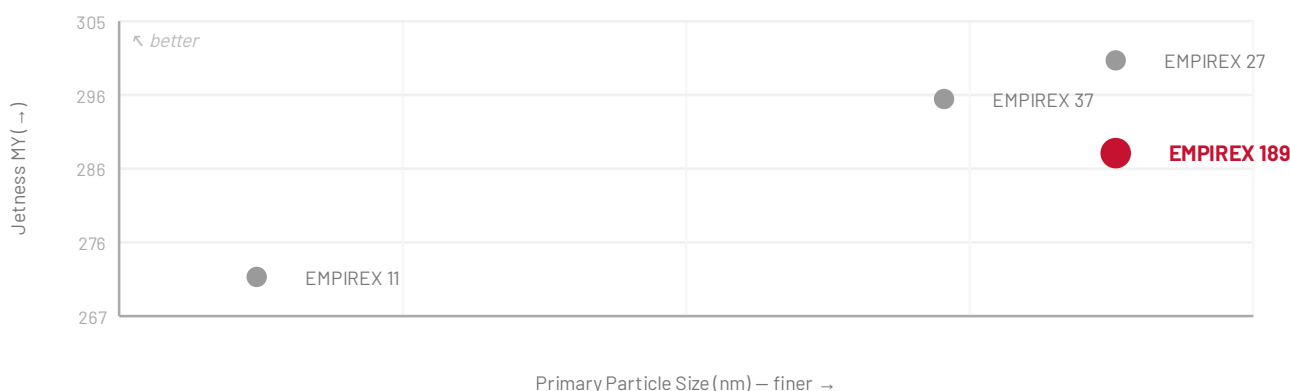
KEY APPLICATIONS

- 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

Jetness (MY) vs Primary Particle Size



TYPICAL VALUE

Test Items	Unit	Standard
Physical Form	-	Bead + Powder
DBP Absorption No.	cc/100g	93 ± 6
BET Surface Area	m ² /g	400 ± 7
PH Value		2.0 ± 1
Tint Strength	%	135 ± 6
Average Original Particle Size	nm	14 ± 2
Volatile Content	%	≥ 8.0

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: Bead + Powder | Packaging: 10 kg (powder) / 20 kg (bead) paper or PE bag

ISTAR MATERIALS

Ground Floor, Plot 1/3, Priyadarshini Parisar
 West Yellow Building
 Opp. Hotel Grand Dhillon, Behind IDBI
 Bank Bhilai, Chhattisgarh - 490020, India

Notice and Disclaimer

The data and information provided herein are based on our current knowledge and experience and are believed to be accurate. However, ISTAR MATERIALS cannot guarantee that similar results will be obtained by others as processing conditions and formulations may vary. This information is provided for guidance purposes only and does not constitute a warranty or guarantee of performance.

+91-9301988995

+91 96305 20016

info@istarmaterials.com