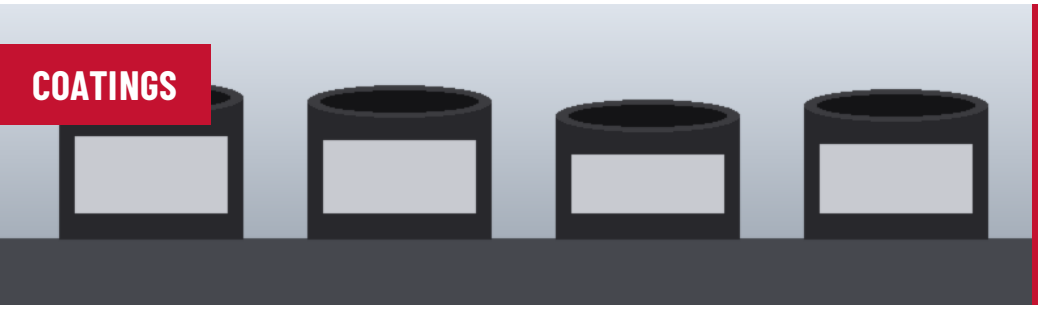
TECHNICAL DATA SHEET



EMPIREX
Series

EMPIREX 179

EMPIREX 179 is a low-structure carbon black developed for coatings where very low mill-base viscosity and high pigment loading matter more than maximum jetness. Its low oil absorption lets formulators reach high carbon loadings without excessive viscosity build, enabling cost-effective, easy-to-handle dispersions.

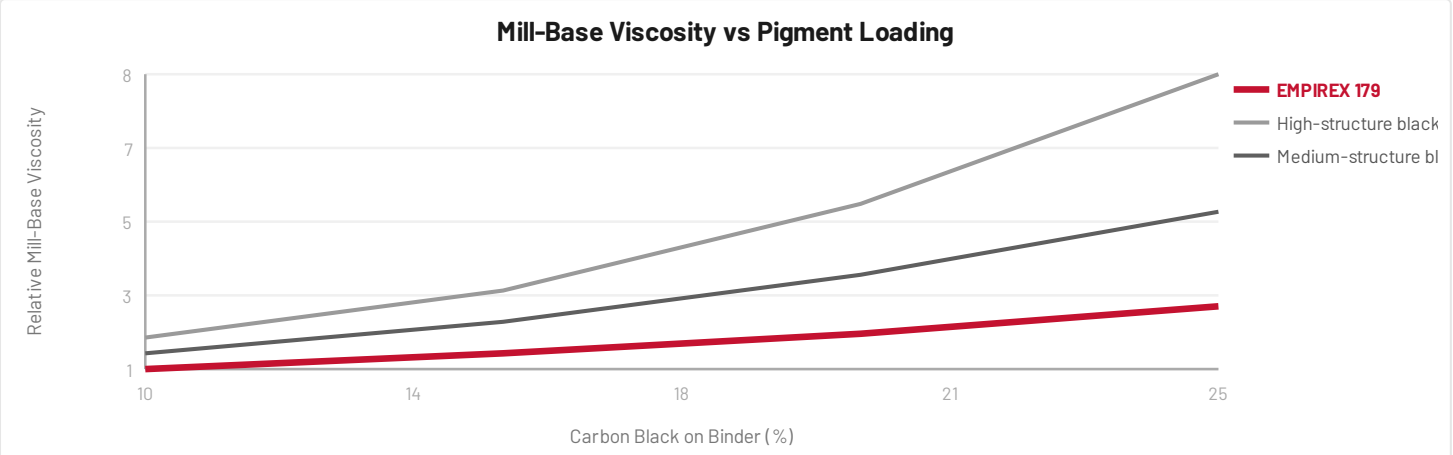
Rather than competing on deep masstone, EMPIREX 179 delivers easy dispersion, low vehicle demand and good flow, suited to economical industrial finishes, primers and tinting bases. It keeps workable rheology at loadings where higher-structure blacks would gel, improving throughput and lowering additive demand.

KEY APPLICATIONS

- Low-viscosity industrial coatings
- High-loading mill-base dispersions
- Primers & undercoats
- Tinting & toning bases
- General-purpose coatings

PERFORMANCE FEATURES

- Low mill-base viscosity at high loading
- Low oil absorption (low structure)
- Easy dispersion
- Low vehicle/additive demand
- Cost-effective at high loading
- Good flow & handling



TYPICAL VALUE

Test Items	Unit	Standard
Physical Form	–	**Bead + Powder**
DBP Absorption No.	cc/100g	**58 ± 5**
BET Surface Area	m^2/g	**85 ± 7**
PH Value		**8.0 ± 1**
Tint Strength	%	**116 ± 6**
Average Original Particle Size	nm	**26 ± 3**
Volatile Content	%	**≥ 1.5**

APPLICATION FIELD

Application	Recommended Dosage
Energy-Cure (UV) Coatings	1 – 3%
Industrial Coatings	2 – 5%
Primers & Undercoats	3 – 5%
Tinting Bases	1 – 3%
Pigment Pastes	5 – 15%
General Coatings	2 – 5%

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
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Notice and Disclaimer

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