



EMPEROR[®] 1800 Specialty Carbon Black



EMPEROR 1800 specialty carbon black is a high color black pigment that can enable deep black masstone in automotive and other high-end coatings applications.

Product Form: Powder

Application Information:

This product can help formulators increase color performance, shorten dispersion time, and improve shelf stability in water-based systems.

EMPEROR 1800 specialty carbon black provides superior performance through optimization of the pigment morphology and the surface chemistry. It is a small particle size pigment and incorporates Cabot's proprietary technology for chemical modification of the pigment. The pigment surface is optimized for water-based systems and delivers exceptional performance compared to conventional oxidized carbon black.

EMPEROR 1800 specialty carbon black is a fluffy pigment black. In Tap Density testing, the density of EMPEROR 1800 specialty carbon black averaged 465 kg/m³.

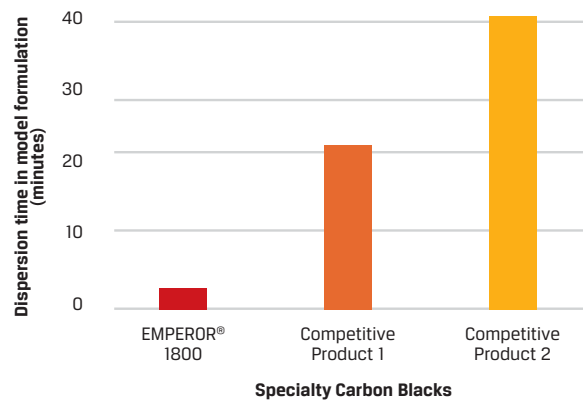
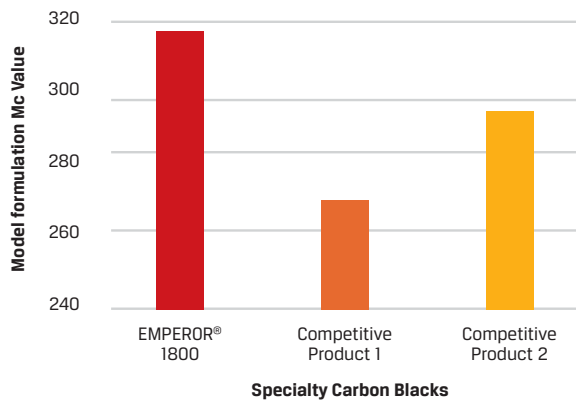
Exceptional Black Color Performance

EMPEROR 1800 specialty carbon black delivers high jetness and deep blue undertone, made possible by the surface treatment which enables dispersion of the pigment down to individual aggregates.

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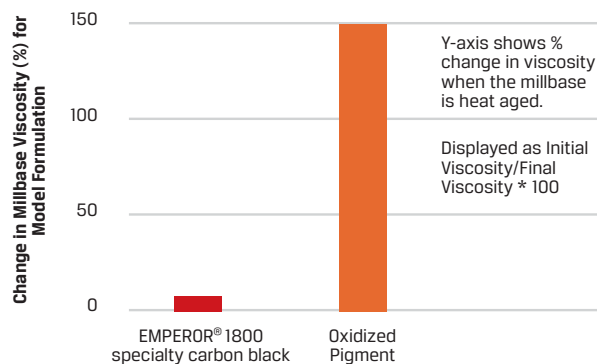
Easy Dispersion

Use of EMPEROR 1800 specialty carbon black reduces dispersion time by more than 85% compared to competitive products. Ionic surface groups on the pigment promote electrostatic stabilization in water-borne systems, causing the pigment particles to separate. Use of EMPEROR 1800 specialty carbon black can lead to shortened grinding time, minimized dispersion costs, and a reduction in color fluctuations due to variation in the dispersion quality.



Highest Level of Dispersion Stability

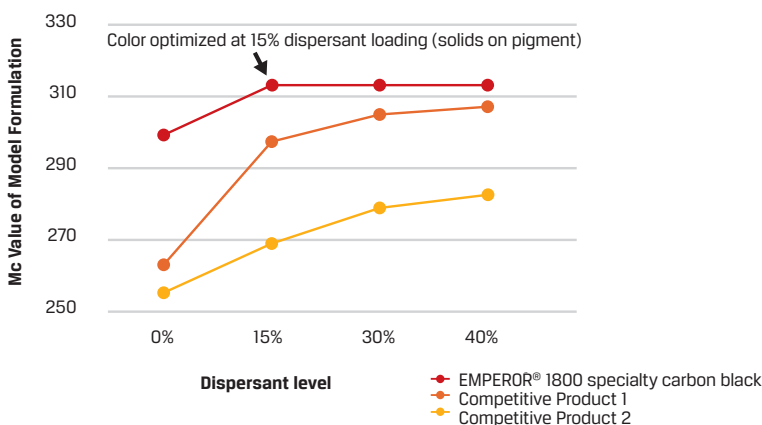
When used in millbases, EMPEROR 1800 specialty carbon black exhibits excellent dispersion stability, helping to enable longer shelf lives for millbases and final formulations and promoting consistent final film properties. Ionic groups on the surface of EMPEROR 1800 specialty carbon black enable electrostatic stabilization of the pigment in water, inhibiting the re-agglomeration of the pigment particles upon aging.



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Minimized Use of Dispersion Additives

Use of EMPEROR 1800 specialty carbon black can reduce the amount of dispersion additives (dispersants) required to achieve optimal performance by more than 50%. Because the surface treatment helps to disperse the pigment in water, formulators can use lower loadings of dispersants than needed for conventional oxidized carbon black.



Packaging

EMPEROR 1800 specialty carbon black is supplied in fluffy form packed in 15 kg paper bags with a poly overslip over the paper bag. It should be stored in a dry place. Recommended storage life: up to 1 year provided it is stored as directed.

Material Safety Data Sheet

A Material Safety Data Sheet for this product may be obtained from your Cabot representative or can be downloaded from our website at www.cabotcorp.com.



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