

Ciba® EFKA®

Benchmark Dispersion of Carbon Black for Waterborne and Solventborne Coatings

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Abstract

Wetting, dispersing and stabilizing High Color Carbon black (HCC) with the new generation High Molecular Weight Dispersants (HMWD) based on Controlled Free Radical Polymerization (CFRP) has become a new benchmark for dispersing carbon black.

Ciba® EFKA® 4585 is the dispersant for stabilizing HCC black in high end water-borne applications like automotive OEM and refinish. Significantly lower viscosities, higher levels of carbon black pigment loading in the concentrates, and creating high values of jetness in the final film are some of the properties of EFKA® 4585.

In solventborne systems, Ciba® EFKA® 4310 and Ciba® EFKA® 4320 are also becoming the new standard in stabilizing HCC black pigments. In the coating application both products will show the best and highest jetness value of the final film compared to existing products in the market.

Dispersing HCC black EFKA® 4310 and EFKA® 4320 can be used with or without resins in the grinding stage. Both products lead to low viscosity, free flowing rheologies of the pre-mixes. Differences in polarity between EFKA® 4310 and EFKA® 4320 make them as a family of products suitable for a broad range of resin systems.