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The pigments, varnishes and other ingredients in the paint must dry to give a glossy finish in order to achieve the greatest vibrancy of colour. · Optimal Pigment Size. A crucial aspect to understand about dispersion of pigments is

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the size of the particles. Smaller particle size of pigment generally provides better transparency.

What Makes Pigment Dispersion Important in Paint Production?

Pigment dispersion requirements in the lab include good color development, a

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homogeneous paste, sufficient opacity or transparency and excellent stability as a paste and in a paint. The lab dispersion then must be scaled up to make paste batches in the paint plant. This often is difficult. The increase in volume changes shear and flow patterns and affects mixing. Velocities, shear stresses and shear rates

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often are less in the plant, sometimes much less, which can affect particle size and ...

Pigment Dispersion I, The Basics - American Coatings ...

Temple C. Patton is the author of Paint Flow and Pigment Dispersion: A

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Paint Flow and Pigment Dispersion: A Rheological Approach ...

High-quality paints rely on excellent

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dispersion of pigments in the paint manufacturing process. Without this critical step, the paint will not hold up and the color and appearance qualities will be poor. Pigments are insoluble particles that give color to paint and other products and need to be dispersed properly to produce a homogenous ...

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Dispersion in the Paint Manufacturing
Process - BYK

The dispersion of a pigment in liquid coatings, paints or inks to produce stable suspension, can be divided into the following three processes: Mechanisms in the dispersion process Pigment wetting :

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All of the air and moisture is displaced from the surface and between the particles of the pigment aggregates and agglomerates (clusters) and is replaced by the resin solution.

How to disperse and stabilize pigments
About the Author Temple C. Patton is the

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author of Paint Flow and Pigment Dispersion: A Rheological Approach to Coating and Ink Technology, 2nd Edition, published by Wiley.

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PAITON. Interscience, New York, 1964.

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blessed by a number of people who are

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dedicated to the task of changing its technology from an art to a science.

Temple Patton must be counted in this group.

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ATTON ...

Temple C. Patton is the author of Paint

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Paint Flow and Pigment Dispersion :
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The 3 Stages of Pigment Dispersion

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WETTING: The formulator introduces the solid pigments into the liquid phase. In this phase, air and moisture entrapped at the pigment surface are displaced to the grinding medium liquid phase. The pigment / air interfaces become pigment / liquid interface. To proceed, the liquid needs to wet the pigment surface.

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Pigment Dispersion: Wetting &
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