

# Hydrite Chemical Co. Technology Group



Our staff of 12 scientists and chemists have 145+ years of combined industry experience with PhD, MS, and BS in Chemistry, Biochemistry, Biomolecular Engineering, Analytical Chemistry, and Inorganic Chemistry.

Combined Areas of Expertise: Product Development, Technical Services, Field Technical Support, Analytical Characterization, Competitive Analysis, Benchmarking, Root Cause Analysis, Analytical Method Development, Statistical Analysis and Design of Experiments.

## Paints & Coatings Industry Capabilities

### Paints & Coatings Industry Areas of Expertise

Formulating Expertise and Technical Services in:

- Architectural Paints and Coatings
- Industrial and Household Paints and Coatings
- Packaging
- Graphic Arts
- Adhesives
- Wood Coatings

**Density:** Measures the effectiveness of a defoamer on entrained air in a system

**Tri-Gloss Measurement:** Compatibility of a defoamer in a gloss or sheen paints and coating application (flat, eggshell, semi-gloss, gloss)

**High Shear Mixing:** Determine the efficiency and persistence of a defoamer in surfactant systems under high shear or stress

**Circulatory Foam Test:** Simulate many industrial application conditions to determine the effectiveness of the defoamer in surfactant systems under a circulatory application

**Drawdown Assessment:** Evaluate surface defects and bubble breaking ability in finished paint systems (i.e. craters, orange peel, fisheyes, etc.)

**D/Emulsification:** Formulation expertise to optimize emulsification or demulsification needs

**Shear Properties:** Evaluation of viscosity and shear conditions to understand spray, flow, brushing, and sag properties

**Storage Stability:** Evaluation of the quality of a product with time under the influence of environmental factors (temperature, humidity, light)

**Shake Test:** Fast and simplistic way to measure generated foam in a non-pigmented system

