Title: Next Generation of Rheological Additive for More Sustainable Industrial Coatings

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Diamide wax based organic thixotropes are standard rheology modifiers that have been used for many years in the formulation of non-aqueous industrial coatings. These products allow the application of ultra-thick layers without sagging issues after spray application. Two main drawbacks of the use of traditional thixotropes are 1. They require a specific temperature activation range and 2. They lose effectiveness in highly polar solvents.

This presentation will show the latest development of organic thixotropes that allow ~~a~~ more simplified incorporation and activation. Mixing incorporation and specific temperature requirements are much broader compared to traditional organic thixotropes. These benefits allow an efficient and flexible alternative compared to other additives.

The new organic thixotrope displays the capability to withstand higher amounts of various alcohols and other highly polar solvent components. It is a very efficient rheology modifier and outperforms other thickener classes in these systems. The wide temperature range and easier incorporation make it the ideal rheology modifier for the sustainable formulation of industrial and protective coatings.

Biography: Mihai Polverejan

Mihai Polverejan is currently employed by Elementis Specialties Corporation as a Technical Service Manager for Industrial and Construction Coating Applications for North and South American regions. He has over fourteen years of experience in the area of rheology, coating formulations, additives and colorants. Prior to joining in Elementis Specialties in 2004, he held a research position with a carbon nanofiber manufacturer and completed a postdoctoral fellowship with University of Connecticut. He received a Ph. D. degree in Chemistry from Michigan State University in 2001.