

## Boosting Surface Resistance of Coatings and/or Personal Care products using Barrier Talc

Talc is an interesting filler to improve the surface resistance of your coatings or personal care products. In a collaboration project with Mondo Minerals, VLCI evaluated their talc against talc products from other sources. Superior barrier performance was achieved with the barrier-talc from Mondo. We can help you applying this in your formulations.

### What is barrier-talc?

Mondo barrier-talcs rely on their superior crystal platy structure, and are therefore preferred for surface resistance: the flat and platy particles overlap, which helps preventing the water from going through the coating.

### What are the benefits related to coatings?

From VLCI's research, it was shown that surface resistance of coatings is significantly improved by the platy and highly hydrophobic character of barrier-talc, especially against solvents. An effective dispersant selection and Optimum Dispersant Content studies were conducted, and allowed a major increase of the barrier-talc, while keeping the viscosity at a good level. Enhanced surface resistance was obtained with Mondo barrier-talc, compared to talc from other sources. The picture 1 below highlights these improvements: a water/ethanol mixture was put in contact of the films for 24 hours, after which the films were evaluated:

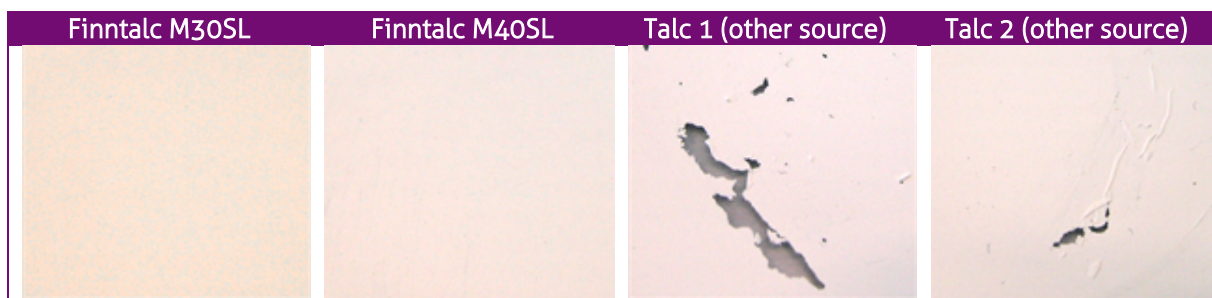


Figure 1: Water/ethanol mixture resistance of the film after 24 hours

### What are the targeted product developments?

Indoor and outdoor paints and coatings, water-resistance personal and beauty care products, etc.

### For whom will this be interesting?

Anyone interested in incorporating these barrier-talc products in coating formulations or personal and beauty care products, targeting superior surface resistance while optimizing final coating costs.