

Improving Substrate Wetting

Are your customers complaining that your paint can not be used on multiple substrates? Do your coatings have problems covering dirty, oily substrates? Do your paints have sporadic adhesion problems on some parts and not others? Does your coating have orange peel when the customer applies it to their substrate that you do not see with your substrate? If you have any of these problems then you might need to lower the surface tension of your coating. Baysilone®Paint Additive- 3739 from Borchers can effectively solve your surface tension problems.

Baysilone®Paint Additive- 3739 is a polyether-modified polysiloxane capable of reducing the surface tension of liquids. As a result of lower surface tension a coating will wet out the substrate much better. With better substrate wetting, appearance and adhesion can be improved. The laws of physics dictate that in order for a liquid to wet out a surface, the surface tension of the liquid must

be lower than the surface tension of the surface. Baysilone®Paint Additive- 3739 is a very efficient surface tension reducer without a lot of side effects. Figure 1 shows how by adding only a small amount of Baysilone®Paint Additive- 3739 to water the surface tension of the liquid can be significantly reduced.

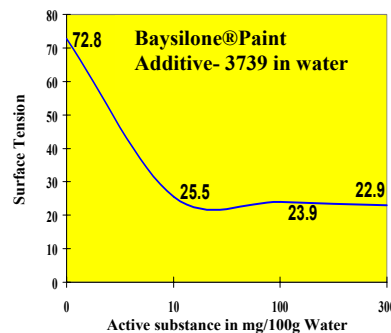


Figure 1

By lowering the surface tension of a coating dirty and contaminated surfaces can be coated without surface defects. Figure 2 shows a waterborne paint applied to panels that contain two common contaminants. With the addition of a small amount of Baysilone®Paint Additive- 3739 to the paint the oil contamination can be coated without surface defects.



Figure 2

Besides eliminating surface defects, a lower surface tension can also allow the coating to contact the surface better and thus improved adhesion. Baysilone®Paint Additive- 3739 can be used in either solvent or waterborne systems without the fear of foaming or the stabilization of foam or the fear of losing intercoat adhesion. In many cases Baysilone®Paint Additive- 3739 can be used in place of fluorosurfactants at a considerable cost saving.

If you need an additive to keep your paint films free of surface defects, contact your local Borchers Additive Representative or call us at 49-2173-3926-666 to request a sample of Baysilone®Paint Additive 3739.