

## Borchers-Additives for adhesives

### PSA Adhesives



Due to their low energy level, plastic substrates like PVC or PP are difficult to wet out. Therefore adhesives have to be equipped with suitable additives to increase substrate wetting. Polysiloxane additives like **Baysilone® -Paint Additive 3739** or **Baysilone® -Paint Additive 3466** provide strong surface tension decrease in nearly every resin binder system. Thus they improve leveling and wetting performance and ensure a homogeneous film surface.

Different types of silicones relieve foam stability because of their tensidic structure. **Baysilone® -Paint Additive 3468** provides the right combination between leveling and air release properties in water and solvent borne systems. The addition of polyurethane thickeners may be advisable to adjust the viscosity balance. **Borchi® Gel VP 0434** and **Borchi® Gel WN 50 S** have been proven to be highly efficient in PSA adhesives formulations.

### Adhesives for inside car bondings



The most common heat reactive adhesives are based on dispersions of high molecular weight aliphatic polyester polyurethanes like Dispercoll® U of Bayer AG. Following application and drying, a non blocking dry film is formed on the substrate which can be heat activated by means of a tunnel or infrared lamp. This causes a decrystallization of the polyester segments and thus the polymer becomes adhesive. Since the right viscosity adjustment is essential, the use of effective and stable thickeners like **Borchi® Gel L 75 N** and **Borchi® Gel ALA** is a crucial point.

Other additives will help to improve the adhesives performance and to overcome problems. When trapped air in the film is an issue, the addition of **Baysilone® -Paint Additive 3468** leads to excellent leveling and air release properties. If enhanced wetting ability is needed, **Baysilone® -Paint Additive 3739** is the right product to use.

### Mattress bondings



Waterborne colloidal polychloroprene dispersions like Dispercoll® C (Bayer AG) are applied by contact or spray mix application. To perfectly fulfill the viscosity requirements of those adhesives, the polyurethane thickener **Borchi® Gel L 75 N** is very well established in the market.

The addition of zinc oxide as an acid scavenger is essential to prevent degradation of polychloroprene films. **Borchers® VP 9802** is a dispersion of activated zinc oxide which yield a long term stability of the adhesives formulation. The product shows a strong pseudoplastic behaviour and thus excellent anti-settling properties.