

## Painting and Staining Extruded Rigid Vinyl

These are general recommendations based on painting and aging studies, conducted by OxyVinyls with a variety of brand name paints. It is advisable to test paint or stain on a small hidden area of the part for both adhesion and appearance.

### **PAINTING WEATHERED, EXTRUDED RIGID PVC**

Good adhesion is easily achieved on weathered rigid vinyl parts such as siding, window profiles or fencing with extended outdoor exposure.

As a group, water-based coatings, and particularly latex paints, have been found to perform best and preserve the physical properties of the substrate. For best results, apply the first coat of paint by brush coating; then roll on or spray the second coat, when possible, for full coverage.

Avoid solvent-based coatings which contain aromatic hydrocarbon solvents. The aromatic constituents of the paints impair the physical properties (notably, impact) of the rigid PVC substrate. This is particularly true when the PVC part is stressed.

### **PAINTING FRESHLY EXTRUDED RIGID PVC**

Freshly extruded or unweathered rigid PVC is difficult to coat. Due to surface tension, paints and coatings tend to bead, streak, and do not coat uniformly. However, successful painting can be achieved by reducing surface tension, then using latex paint and the technique described above for painting weathered rigid PVC.

### **REDUCING SURFACE TENSION**

Lower the surface tension of the paint by adding .02% of a fluorocarbon surfactant.

Check paint manufacturer for recommendation.

Wipe PVC surface with tertiary butanol to increase surface energy. After the butanol is applied, wait for one-half hour for the surface alteration to take place. This surface treatment will be effective for the next twenty-four hours, during which time the latex paint will have to be applied.

### **STAINING RIGID PVC**

To stain rigid PVC use the preparation techniques described for painting, then follow the stain manufacturer's instructions.