

GENERAL DESCRIPTION:

A carboxy functional metal organic adhesion promoter synthesized using a **STABILIZED BIMETAL PRECURSOR**. The product is supplied in ethylene glycol to aid in rapid dispersion and solubilization of the active components in polymer matrices.

PHYSICAL PROPERTIES:

Physical form	Clear liquid
Color	pale yellow
Metal content (Total %)	5.2-5.9
Complexed organics	9.1-9.3
Specific gravity (g/ml)	1.23
pH (2% soln)	3.90
Active matter (wt %)	27.5
Solvent	ethylene glycol
Organofunctionality	carboxy

APPLICATION:

(1) Adhesives: Recommended for enhancing adhesion of epoxy, urethane, acrylic and other solvent-borne coatings to metal surfaces with resultant reduction in corrosion. Also enhances adhesion to many plastic surfaces. Useful in many water-borne coatings (styrenated acrylates and others) for enhanced adhesion to metal and plastic substrates. Note: Chartwell B-515.4 is recommended for acrylic latex coatings.

(2) Coatings: Recommended for dispersion of difficult to disperse pigments, i.e. phthalo blue/ green, carbon black, etc. Also for all inorganic pigments, conductive pigments and mineral fillers.

PROCEDURE: HIGH SHEAR MIXING NECESSARY IN ALL SOLVENT-BORNE SYSTEMS

1. Coatings/ Inks: Optimum performance is achieved when added directly to the grind stage resin and high shear mixed for 15 mins before adding other components. **Must be high shear mixed with a Cowles type mixer. Milling alone is not sufficient.**

2. Adhesives: 1.0-2.0 phr, post add recommended under agitation

3. Plastics: 1.0-2.0 phf (parts per hundred filler; recommend pretreat of pigments/ fillers in a Henschel or similar mixer and subsequently compound with resin. For high surface area pigments/ fillers, i.e. fumed silica, carbon black, phthalo, and similar.

4. Rubber: 1.0-3.0 phr, add directly onto silica or other filler and compound in a Banbury mixer.

