

Chartwell B-515.1/ 2H

TECHNICAL DATA

ADHESION PROMOTERS

GENERAL DESCRIPTION:

A high concentration amino 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 %)	10.4 - 11.8
Complexed organics	18.2 - 18.6
Specific gravity (g/ml)	1.39
pH (2% soln)	4.5
Active matter (wt %)	50.5
Solvent	ethylene glycol
Organofunctionality	amino

APPLICATION:

(1) Adhesives: Recommended for epoxy, urethane, and rubber adhesives to enhance adhesion to metals, plastics and elastomers. Increased T-peel strength. Improved resistance to moisture, heat and corrosive environments.

(2) Coatings: Recommended for enhancing adhesion of epoxy, urethane, alkyd, acrylic, polyester and other solvent-borne coatings to metal surfaces with resultant reduction in corrosion. Also enhances adhesion to many plastic surfaces. Useful in most water-borne coatings (Latex and polymer dispersion) for enhanced adhesion to metal and plastic substrates.

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.**

- **Two component epoxies:** Add to resin (A side); level is 0.5 - 1.0 wt. per cent of total binder (combined resin + hardener).
- **Two component urethanes:** Add to polyol (B side); level is 0.5 - 1.0 wt. per cent of total binder (combined isocyanate + polyol).

2. Adhesives: 0.5 - 1.0 phr, post add recommended under agitation.

3. Plastics: 0.5 - 1.0 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, ie fumed silica, carbon black, phthalo, and similar.

4. Rubber: 0.5 - 1.0 phr, add directly onto silica or other filler and compound in a Banbury mixer.

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