

Chartwell C-523.2H

TECHNICAL DATA

ADHESION PROMOTERS

GENERAL DESCRIPTION: A hybrid carboxy/ hydroxy functional metal organic adhesion promoter synthesized using a **STABILIZED BIMETAL PRECURSOR**. The product is supplied in propylene glycol.

PHYSICAL PROPERTIES:

| | |
|-------------------------|------------------|
| Physical form | sl. hazy liquid |
| Color | pale yellow |
| Metal content (Total %) | 7.2 - 8.1 |
| Complexed organics | 12.5 - 12.8 |
| Specific gravity (g/ml) | 1.22 |
| pH (2% soln) | 3.4 |
| Active matter (wt %) | 30.30 |
| Solvent | propylene glycol |
| Organofunctionality | carboxy, hydroxy |

APPLICATION:

(1) Coatings/ Adhesives: Recommended for enhancing adhesion of high solids solvent-borne (or 100% solids) polyester, alkyd, acrylic, epoxy, and urethane coatings/ adhesives to:

- All metals, improve salt fog resistance, reduce creep at the scribe, and reduce blistering
- Many plastics, including ABS and treated PP/ PE
- Also, improved adhesion to many plastics, concrete, rubber, wood and ceramics

(2) Pigment Dispersion: Recommended for dispersion of difficult to disperse pigments, ie 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: 0.7 - 1.4 wt per cent based upon combined polymer solids + anti-corrosive pigments + inorganic pigments. 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: 0.7 - 1.4 phr. High shear mix with Cowles or similar mixer.

3. Pigment Dispersion: 2.2 wt per cent based upon organic (phthalo, carbon black, etc.) plus 1.1 per cent based upon inorganic pigment weight. High shear mix with Cowles or similar mixer.

Chartwell C-523.2H Data Sheet 8/03

