

# 安鋒實業股份有限公司

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## AP-B535.1

### GENERAL DESCRIPTION:

A hydrocarbon functional metal organic adhesion promoter synthesized using a **STABILIZED BIMETAL PRECURSOR**. The product is supplied in a solvent carrier consisting of ethylene glycol and 2-butoxy ethanol to aid in rapid dispersion and solubilization of the active component in polymer matrices.

### PHYSICAL PROPERTIES:

Physical form	: Clear liquid
Color	: pale yellow
Metal content	: 4.3~4.5%
Complexed organics	: 9.9~10.1
Specific gravity	: 1.06 g/ml
pH value(2% soln)	: 4.3
Active matter	: 24.4 wt %
Solvent	: 2-butoxyethanol/ethylene glycol
Organofunctionality	: hydrocarbon

### APPLICATION:

(1) **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. Particularly useful for the dispersion of these pigments in solvent borne coatings and polyolefins.

(2) **Thermoplastics:** Use of B-535.1 to treat mineral fillers, ie calcium carbonate, mica, silica, clay, etc. will result in improved physical properties of the compounded polyolefin.

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

1. **Coatings/ Inks:** Addition to the grind stage with high shear mixing is strongly recommended. 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, ie fumed silica, carbon black, phthalo and similar use 3.0-5.0 phf.

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