ADHESION PROMOTERS

GENERAL DESCRIPTION: A high concentration amino functional metal organic adhesion promoter absorbed upon a high surface area precipitated silica carrier. The product is a dry free flowing solid which physically breaks down upon compounding (Banbury, Henschel, etc.) to release the active amino functional adhesion promoter. The quantity of carrier solvent introduced to the powder coating, rubber, etc. is reduced by 65% vs. Chartsil B-515.1.

PHYSICAL PROPERTIES:

Physical form	free flowing solid
Color	white
Metal content (Total %)	7.5 - 8.5
Chartwell B-515.1/ 2H (wt %)	72
Silica	28
Complexed organics	13.0 -13.4
Active Matter	36.8
Absorbed Solvent	ethylene glycol
Organofunctionality	amino

APPLICATION:

(1) Powder Coatings: Particularly useful for enhancing adhesion of epoxy, polyester/ epoxy hybrid and urethane powder coatings to many metal substrates (CRS, aluminum, brass, etc.) where liquid additives cannot be easily handled. Will improve salt fog and blistering resistance and reduce creep at the scribe.

(2) 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 & corrosive environments.

PROCEDURE:

- **1. Powder Coatings:** Recommend 0.5 1.0 phr. **High shear mixing (Henschel, etc.) is strongly** recommended. DO <u>NOT</u> EXCEED recommended use level.
- 2. Adhesives: 0.5 1.0 phr, add to resin and mix.

3. Plastics: 0.5 - 1.0 phf (parts per hundred filler); May be added directly to the extruder with resin, filler, and other additives. For high surface area pigments/ fillers, ie fumed silica, carbon black, phthalo, and similar use 1.0 phf to 2.0 phf.

4. Rubber: 0.7 - 1.4 phr, add directly and compound in a Banbury mixer.

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