

Chartsil C-523.2H

TECHNICAL DATA

ADHESION PROMOTERS

GENERAL DESCRIPTION: A hybrid carboxy/ hydroxy 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 carboxy/ hydroxy functional adhesion promoter.

PHYSICAL PROPERTIES:

Physical form	free flowing solid
Color	white
Metal content (Total %)	5.2 - 5.9
Chartwell C-523.2H (wt %)	72
Silica	28
Complexed organics	9.2 - 9.4
Active Matter	25.4
Absorbed Solvent	propylene glycol
Organofunctionality	hydroxy/ carboxy

APPLICATION:

(1) Powder Coatings: Particularly useful for enhancing adhesion of polyester powder coatings to many metal substrates (CRS, aluminum, brass, copper, etc.) where liquid additives cannot easily be handled.

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

(3) Plastics: Recommended for the dispersion of phthalo pigments, carbon black, all inorganic pigments, and mineral fillers in all plastics with improved physical properties in many mineral filled plastics.

PROCEDURE:

1. Powder Coatings: 1.0 - 1.4 phr (parts per hundred resin)

- **DO NOT EXCEED recommended use level**
- **High Shear Mixing (Henschel, etc.) is strongly recommended**

2. Other coatings/ Inks:

- **NOTE:** All recommended Chartwell "H" levels found in Use Procedure Bulletins apply to liquid products only and must be increased by a factor of 1.4 x to determine corresponding recommended level for Chartsil (solid) products. **The levels recommended in this bulletin require NO adjustments.**

3. Adhesives and Sealants: 1.0 - 1.4 phr, add to resin and high shear mix.

4. Plastics: 1.0 - 1.4 phf (parts per hundred filler/ pigment); recommend preblend with pigments or 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 1.3 phf to 2.6 phf.

