# Chartsil C-505.1/ 2H

TECHNICAL DATA

ADHESION PROMOTERS

**GENERAL DESCRIPTION:** A high concentration mercapto 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 mercapto functional adhesion promoter. The quantity of carrier solvent introduced to the powder coating, rubber, etc. is reduced by 65% vs. Chartsil C-505.1.

**PHYSICAL PROPERTIES:**

| | |
|---|---|
| **Physical form** | free flowing solid |
| **Color** | white |
| **Metal content (Total %)** | 6.6 - 7.4 |
| **Chartwell C-523.2H (wt %)** | 72 |
| **Silica** | 28 |
| **Complexed organics** | 11.4 - 11.7 |
| **Active Matter** | 33.1 |
| **Absorbed Solvent** | propylene glycol |
| **Organofunctionality** | mercapto |

**APPLICATION:**

**(1) Powder Coatings:** Particularly useful for enhancing adhesion of epoxy and urethane powder coatings to many metal substrates (CRS, aluminum, brass, etc.) where liquid additives cannot easily be 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 and corrosive environments.

**PROCEDURE:**

**1. Powder Coatings:** 0.6 - 1.2 phr (parts per hundred resin)

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

**2. Adhesives:** 0.6 - 1.2 phr, add to resin and mix.

**3. Plastics:** 0.6 - 1.2 phf (parts per hundred filler/ pigment. May be added directly to the extruder with resin, filler, and other additives. For high surface area pigments/ fillers, i.e. fumed silica, carbon black, phthalo and similar, use 0.6 phf to 1.2 phf.

**3. Rubber:** 0.6 - 1.2 phr; Add directly and compound in a Banbury mixer.



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