

Chartwell B-505.6

TECHNICAL DATA

ADHESION PROMOTERS

GENERAL DESCRIPTION:

A mercapto functional organic adhesion promoter synthesized using a **STABILIZED BIMETAL PRECURSOR**. The product is supplied in ethylene glycol to aid in rapid dispersion and solubilization of the active component in polymer matrices.

PHYSICAL PROPERTIES:

Physical form	Clear liquid
Color	moderate yellow
Metal content (Total %)	4.2 - 4.8
Complexed organics	17.5 - 19.5
Specific gravity (g/ml)	1.26
pH (2% soln)	6.4
pH (as supplied)	8.3
Active matter (wt %)	31.55
Solvent	ethylene glycol
Organofunctionality	mercapto

APPLICATION:

(1) Adhesives: Recommended for WB elastomer adhesives, epoxy (especially dicyanamide cured) and urethane adhesives to enhance adhesion to metals, plastics, and elastomers. Increased T-peel strength. Improved resistance to moisture, heat and corrosive environments.

(2) Elastomers: Recommended for mineral filled (silica, etc.) or carbon black pigmented sulfur cured elastomers at 1.0 -2.0 phr to improve physical properties tensile, tear and abrasion resistance.

Incorporation during compounding improves adhesion of other rubber, metal and synthetic materials to the molded rubber surface.

PROCEDURE:

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.**

It is recommended that evaluation be conducted at both 1.0 and 2.0 phr (parts adhesion promoter on polymer solids). See **Chartwell Use Procedure** bulletin.

Chartwell B-505.6 Data Sheet 9/06

