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Chartwell B-505.6

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 1-2 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.