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ISO 9001-2000 REGISTERED

COUPLING AGENTS

Harwick Standard has a series of silane coupling agents in the form of easy-to-handle, free-flowing powders. These products have different organo-functional groups and can be used in various elastomers, the choice of which depends on the type of vulcanization system in use. In addition, Harwick also offers the liquid line of Silquest Silane Coupling Agents.

Silane coupling agents are used with mineral fillers such as clay, talc, mica and silica to improve the physical properties of vulcanizates. They function by chemically coupling the filler to the backbone of the polymer during vulcanization.

The products currently available are listed below:

DRY LIQUID CONCENTRATES

PRODUCT	ORGANO-FUNCTIONAL GROUP	VULCANIZATION SYSTEM
A-172 DLC	Vinyl	Peroxide cured elastomer (EPR, EPDM, CPE, CSM & NBR)
A-1100 DLC	Amino	Sulfur cured elastomers (SBR, NBR, NR, EPDM, IIR) Metal oxide cured system (CSM, CR)
A-174 DLC	Methacryl	Peroxide cured elastomer (EPR, EPDM, CPE, CSM, NBR)

Continued

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COUPLING AGENTS, continued

LIQUIDS

PRODUCT	ORGANO-FUNCTIONAL GROUP	VULCANIZATION SYSTEM
Silquest A-172	Vinyl	Peroxide cured elastomers (EPR, EPDM, CPE, CSM & NBR)
Silquest A-189	Mercapto	Sulfur cured elastomers (SBR, NBR, NR, EPDM, IIR)
Silquest A-1100	Amino	Sulfur cured elastomers (SBR, NBR, NR, EPDM, IIR) Metal oxide cured system (CSM, CR)
Silquest A-1120	Amino	Sulfur cured elastomers (SBR, NBR, NR, EPDM, IIR) Metal oxide cured system (CSM, CR)
Silquest A-1289	Tetrasulfide	Sulfur cured systems (SBR, NBR, NR & EPDM)
Silquest A-1589	Disulfide	Sulfur cured systems (SBR, NBR, NR & EPDM)
Silquest A-1891 (low odor version of A-189)	Mercapto	Sulfur cured elastomers (SBR, NBR, NR, EPDM, IIR)
Silquest RC-1	Vinyl	Peroxide cured elastomers (EPR, EPDM, CPE, CSM & NBR)

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