

BLUESTAR SILICONES

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COMPANY DESCRIPTION

Bluestar Silicones is a global silicones raw material manufacturer established in 2007 through China National Bluestar Corporation's acquisition of Rhodia Silicones. Bluestar Silicones, which has manufacturing operations in all regions of the world, combines upstream silicone metal operations and capacity with downstream silicone market and applications expertise. As one of the world's leading fully integrated global silicones manufacturers with more than 50 years of silicone expertise, Bluestar Silicones offers a full-range of silicone products in the areas of release coatings, specialty elastomers, healthcare, textile coatings, specialty fluids, emulsions and resins.

MARKETS SERVED

Bluestar Silicones' Release Coatings business spans the globe with production and technical service locations in Europe, North America, Asia and Latin America. Bluestar Silicones' Silcolease® release silicones are used by liner and laminate producers, while narrow web printers and converters can also benefit from our UV curable systems. Silcolease® release coatings systems are found in a variety of applications, including roll label, tapes, graphic arts, variable print, medical, industrial and construction, food release, direct mail and printed forms.

PRODUCTS AND TECHNOLOGY

Bluestar Silicones' Silcolease® release coatings systems are liquid systems supplied as solventless, emulsion or solvent-borne systems to meet a wide variety of coating and drying capabilities. Silcolease® release coatings can be coated by mayer rod, offset gravure, flexogravure, or multi-roll coating methods. Curing is achieved by thermal methods such as IR, forced air gas ovens, dryer cans, UV lamps or electron beam.

UV CURE FOR NARROW WEB PRINTERS

Silcolease® UV curing systems offer a flexibility to coat both filmic and paper substrates at low temperatures that are not possible with thermal cure systems. Comparative energy costs are low compared to thermal systems and space taken by installation is small, making UV an option for specialty users and narrow web printers and converters.

The Silcolease® UV series comprises both cationic and free-radical cure systems for ultimate flexibility. The UV Cationic series has excellent cure response to UV C radiation due to the incorporation of Bluestar Silicones' patented photoinitiator technology. This photoinitiator can be supplied separately to add to a base polymer or as a monocomponent system ready to use without further formulation. A range of base polymers offers the flexibility for coating head and substrate variations and release control additives are used to modify the release towards premium or tight values.

Bluestar Silicone's free-radical UV chemistry offers improved substrate flexibility in an easy to coat viscosity while providing low to medium release levels with excellent release stability.

