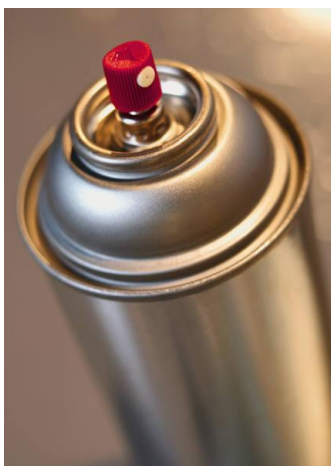


PhotoScienceSolutions



Custom Formulations

Enabling Technology in Photochemistry
Photochemical Products and Services
Contract Research and Development

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spectra
group limited, inc
20 YRS OF PHOTOCHEMICAL SOLUTIONS

Custom Formulation/Product Development Services

Spectra Group offers a number of existing specialty light curable formulated products and can engage in custom formulation development.

Spectra Group offers its expertise in formulation/product development as a part of its customer service. The work is performed on a completely confidential basis with appropriate non-disclosures signed if necessary.

Formulation/product targets are developed in accordance with customers' specifications and product properties evaluated per specified set of tests.

Developments can target potential intellectual property transfer or Spectra Group serving as an exclusive supplier for a period of time.

FORMULATED PRODUCTS

INTENDED USE & MAIN ATTRIBUTES	
SPECTRATITE ADHESIVES	
3175	General use for plastics (polycarbonate, acrylic)
PP series	<u>Polypropylene-to-polypropylene</u> , customizable viscosity for online coating
AL series	Visible light (> 400 nm) <u>cationically</u> curable epoxy-based adhesives for glass and plastic
HP208, HP211	Two-part epoxy-amine for properly prepared <u>aluminum</u> , room or elevated T cure, maintains significant lap shear and peel strength at service T > 82°C
HP121, HP183	Two-part epoxy-amine <u>shim</u> for properly prepared <u>aluminum</u> , room or elevated T cure, high compressive strength and superb solvent resistance
SPECTRA PROTECTIVE COATINGS	
SPC-1177	100% Solids <u>low viscosity</u> (50 cps @ RT) <u>low gloss</u> (10) OPV for <u>paper/plastic</u>
SPC-1191, 1192, 1193	100% Solids sprayable for <u>wood veneer and paper</u> with variable gloss: excellent adhesion, solvent and abrasion resistance; low UVA dose to cure; customizable for EB coatings
SPECIALTY	
AP##-54	Sparayable sandable <u>automotive body primer</u> for repair and topcoat application: excellent adhesion to metal and plastic; curable with UVA light/sunlight; available for HVLP equipment and as aerosol
SPC-G5	Embedment/mounting resin for <u>metallography</u> with excellent hardness, solvent resistance, no shrinkage; curable with UVA/visible light
SPC-1135	LED (395 nm) curable decorative black ink; contains VOC for pad printability; adhesion to metal
PERA series	UVA/visible light curable thin coating; tackfree cure for mask imaging; contains VOC for online coating
SPC-8444	100% Solids UV primer/tiecoat for plastics (PET, polycarbonate) and glass

About Spectra Group

We Are Specialists in Creative Photosciences Solutions

The company was founded in 1991 and has a dedicated and highly skilled staff covering various fields including photochemistry, polymer chemistry, and organic synthesis.

Some of our main specialties include **resin formulation** for various light cure applications, **photoinitiator optimization, formulation testing and analysis**, including novel, difficult and “next generation” varieties.

Spectra Group offers both **CONTRACT RESEARCH/DEVELOPMENT SERVICES** and a **UNIQUE COLLECTION of PRODUCTS**

For Contract R&D Spectra Group uses its world-class expertise and well-equipped facilities to obtain proprietary or patent position for its clients, introduce new products, assess feasibility, or find solutions to existing problems.

Spectra Group Contract R&D work can be beneficial for companies who are not skilled in photochemistry/radiation cure, who are exploring the use of radiation cure for the first time, or who want to employ supplemental expertise in the field.

The areas of formulation development for existing and new products include coatings for metal (corrosion resistant coatings, automotive primer), wood and plastic; inks; adhesives for plastics, glass and metal; thick composition cure; filled potting materials.

Spectra Group also performs custom and toll small molecule organic synthesis.

SPECTRA GROUP PRODUCTS include:

- UV/VISIBLE, PANCHROMATIC VISIBLE AND IR PHOTOINITIATORS
- COLOR-ON-DEMAND LINE, including fully formulated products, additives and printed materials
- SPECIALTY CUSTOM FORMULATIONS
- ORGANIC SYNTHETIC SPECIALTIES

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