



next generation technology

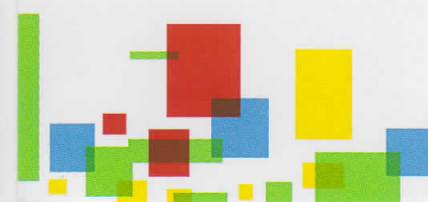
Sun Chemical, known as a pioneer of synthetic mica-based effects, presents SunSHINE® Spectral Effects, our next generation synthetic mica platform (INCI designation Synthetic Fluorphlogopite). Utilizing a unique deposition process, we are able to create a range of effect pigments possessing greater clarity, luster and chroma than was previously achievable. With no end-use restrictions and industry-leading heavy metal purity standards, SunSHINE Spectral Effects retains all of the benefits you have come to expect from SunSHINE. For an enhanced color spectrum, include SunSHINE Spectral Effects in your next cosmetic formulation.

SunSHINE Spectral Effects	Product Code	Particle Size Distribution	Chemical Composition %		
			Synthetic Fluorphlogopite	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>
Spectral Gold	C81-4115	5-35 microns	44-55	45-56	
Spectral Red	C81-4135	5-35 microns	27-38	62-73	
Spectral Violet	C81-4145	5-35 microns	24-35	65-76	
Spectral Blue	C81-4155	5-35 microns	55-66	34-45	
Spectral Green	C81-4165	5-35 microns	17-28	72-83	
Spectral Golden	C84-4215	9-45 microns	35-52	34-45	14-20
Spectral Orange	C84-6125	5-35 microns	43-53		47-57
Spectral Bronze	C84-6185	5-35 microns	45-55		45-55
Spectral Copper	C84-6195	5-35 microns	40-50		50-60
Spectral Russet	C84-6175	5-35 microns	33-43		57-67

	Heavy Metal Specifications									
	Hg	As	Pb	Cd	Ba	Sb	Cu	Cr	Ni	Zn
SunSHINE Spectral Iridescent Effects	1 ppm	1 ppm	1 ppm	1 ppm	10 ppm	1 ppm	10 ppm	10 ppm	10 ppm	10 ppm
SunSHINE Spectral Metallic Effects	1 ppm	1 ppm	3 ppm	1 ppm	30 ppm	1 ppm	30 ppm	30 ppm	50 ppm	40 ppm

**SunChemical®**

a member of the DIC group





C81-4115  
Spectral Gold  
5-35 microns



C81-4135  
Spectral Red  
5-35 microns



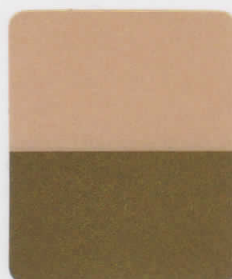
C81-4145  
Spectral Violet  
5-35 microns



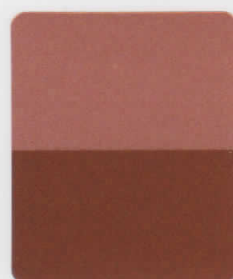
C81-4155  
Spectral Blue  
5-35 microns



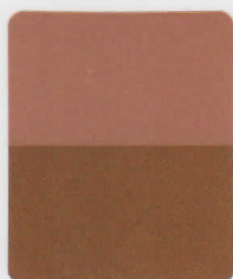
C81-4165  
Spectral Green  
5-35 microns



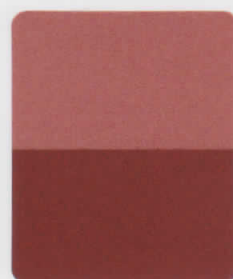
C84-4215  
Spectral Golden  
9-45 microns



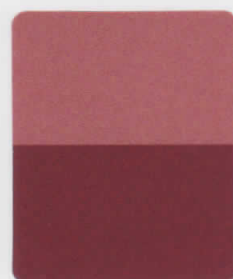
C84-6125  
Spectral Orange  
5-35 microns



C84-6185  
Spectral Bronze  
5-35 microns



C84-6195  
Spectral Copper  
5-35 microns



C84-6175  
Spectral Russet  
5-35 microns




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