

94401 - 94420 Solvent Dyes

Solvent Dyes can be used for transparent printing inks, as mordants for wood, as transparent colorants for solvent-based laquers, for tinting epoxy- and polyester resins and for similar applications.

The Solvent Dyes are easily soluble in most solvents. They are very brilliant and relatively stable. The dyes 94405 Solvent Red 127 and 94419 Solvent Red 160 are not recommended for coatings due to their inferior lightfastness. Most of the dyes can be easily dissolved in a mixture of 80% Ethyl Alcohol (70805), 5% water and 15% Methoxypropanol PM (70920). For most applications it is sufficient to use 1-5 g per liter.

Lightfastness

Product	Lightfastness Printing inks (NC)	Lightfastness Printing inks (PVC)	Lightfastness Coatings
94401 Solvent Yellow 82, yellow dye	5	7	7
94402 Solvent Yellow 88, sun-gold	7	7	7
94404 Solvent Yellow 89, yellow-orange	5-6	7	7
94405 Solvent Red 127, pink	2-3	2	n. d.
94406 Solvent Orange 11	5	7	7
94408 Solvent Orange 99, orange-red	5	5-6	7
94410 Solvent Brown 43, brown	5	7	5
94412 Solvent Red 122, red-violet	3-4	5-6	6
94413 Solvent Black 29, deep black	3-4	7	6
94414 Solvent Blue 67, dark turquoise	6	6	5-6
94416 Solvent Blue 70, light turquoise	4	6	6
94419 Solvent Red 160, ruby	2	2	n. d.
94420 Solvent Black 27, formerly Diamond Black	6	6	7

Solubility (g/l)

Product	Ethyl Alcohol 99.8 %	Isopropanol	Ethyl Acetate	Butyl Acetate	Methyl Ethyl Ketone	Methyl Isobutyl Ketone	1-Methoxy -2-propanol
94401 Solvent Yellow 82	>500	<10	<30	100	200	<30	100
94402 Solvent Yellow 88	300	50	100	100	1000	100	600
94404 Solvent Yellow 89	700	700	150	50	900	250	700
94405 Solvent Red 127	200	<10	<10	<10	<10	<10	>500
94406 Solvent Orange 11	n. d.	25	300	n. d.	250	400	700
94408 Solvent Orange 99	n. d.	150	50	100	>500	250	>500
94410 Solvent Brown 43	n. d.	25	25	25	400	300	450
94412 Solvent Red 122	100	40	100	400	>500	>500	200
94413 Solvent Black 29	>500	25	50	25	>500	200	>500
94414 Solvent Blue 67	250	n. d.	25	n. d.	400	150	150
94416 Solvent Blue 70	25	100	100	100	100	250	450
94419 Solvent Red 160	>500	<10	<10	>500	>500	>500	>500
94420 Solvent Black 27	<10	<10	<10	<10	400	100	>500

n. d. no data