



USF : VOC free Universals Colorants

1. DEFINITION :

The universals VOC free colorants from the range **USF**, are designed to color water based and solvent based coatings : paints, plasters, wood satins and varnishes. The **USF** colorants have been optimized to be used in tinting machines in shop and can be used also in plant. The **USF** patented polymeric colorants, are universal, solvent free, surfactant free, APEO free and VOC free. Thanks to this unique **USF** multicompatible technology you get the best of each pigment when combined with an optimal colorant selection inside a tinting system: 100 000 colors, opacity, light fastness, weather fastness, simplicity, and price. Five systems are described below in the colorants selections: Classical selection, Mineral, Wood, TSR and Special.

2. FIELD OF USE :

The **USF** colorants are compatible with the following products:

- Solvent based architectural paints: alkyds, urethane-alkyds, and acrylic copolymers in solution.
- Water based architectural paints: acrylic and vinylic latexes and alkyds.
- Wood stains, varnishes
- Mineral paints (anorganic): Silicate paints, siloxanic, siliconic, lime paints.
- Water based industrial paints: alkyds polyurethanes, epoxies, and acrylics. (see also our specific range CWI for industrial water based paints)

It is the user responsibility to check if his choice of colorant is suitable to the final use. For example : pH of the paint, application substrate.

3. SUITABILITY :

The **USF** Universal colorants make it possible to optimize the coloration of paints and coatings thanks to an excellent compatibility with the various families of water based or solvent based paints mentioned above.

They are usable in the different tinting machines of the market, manual, semi-automatic and automatic after checking and possible adaptation of the physicochemical compatibility of the machine elements with the colorants.

The colorants must always be well homogenized by mechanical agitation before using. The aptitude for use of the colorants is guaranteed two years in unopened packing if they are stored between 5 and 40°C, even if they keep in theory all their qualities during a longer period of storage.



4. HANDLING AND SAFETY :

Please consult the **USF** Universal colorants Material Safety Data Sheets and follow the rules of hygiene and safety indicated. These Material Safety Data Sheet can be consulted on our website at the following address: www.coloris-gcc.com

In accordance with the European regulations in force, the USF colorants do not contain CMR substances (according to directive CLP 1272/2008 including ATP nr 1 to nr 6).

5. CHARACTERISTICS OF THE USF COLORANTS:

See enclosed table for the following characteristics: density, percentages of dry pigment are given as an indication. The values of the light fastness and weather fastness are expressed according to international scales.

For other characteristics, ask for the Product Specification Sheet if necessary.



6. CLASSICAL SELECTION

Code	Colorant Designation	Color Index	Density	% Pigment	Light Fastness 0 - 8			Weather Fastness 0 - 5		
					Deep tone	Medium tone	Pastel tone	Deep tone	Medium tone	Pastel tone
SF.BH	White HC	PW 6	1.99	67	8	8	8	5	5	5
SF.JH	Oxide Yellow HC	PY 42	1.73	54	8	8	8	5	5	5
SF.RH	Oxide RedHC	PR 101	1.59	58	8	8	8	5	5	5
SF.NH	Carbon Black HC	PBk 7	1.49	15	8	8	8	5	5	5
SF.VR	Phthalo Green	PG 7	1.38	26	8	8	8	5	5	5
SF.BE	Phthalo Blue	PB 15:4	1.27	19	8	8	8	5	5	5
SF.VI	Violet	PV 23	1.34	9	8	8	8-7	5	5-4	4
SF.MA	Magenta	PR 282	1.20	20	8	8	8	5	5	5
SF.RV	Bright Red	PR 112	1.35	25	8-7	N.U.	N.U.	5-4	N.U.	N.U.
SF.OV	Bright Orange	PO 5	1.21	26	7-6	N.U.	N.U.	5-4	N.U.	N.U.
SF.JV	Bright Yellow	PY 74	1.22	37	8-7	N.U.	N.U.	5-4	N.U.	N.U.
SF.PV	Bright Lemon	PY 3	1.24	33	8-7	N.U.	N.U.	5-4	N.U.	N.U.
SF.RP	Pastel Red	Red 242	1.24	17	8	8-7	8-7	5	5	5-4
SF.OP	Pastel Orange	PO 62	1.22	33	8	8-7	7	5	5-4	4
SF.JP	Pastel Yellow	PY 175	1.11	27	8	8	8-7	5	5-4	4

Guidance figures only without any contractual value. This edition, in the English language, also exists in the French language, which is the official language.

N.U : Non Used in Pastel and Medium tone.



Product Data Sheet**COLORIS GLOBAL COLORING CONCEPT®**

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**7. MINERAL SELECTION**

Code	Colorant Designation	Color Index	Density	% Pigment	Light Fastness 0 - 8			Weather Fastness 0 - 5		
					Deep tone	Medium tone	Pastel tone	Deep tone	Medium tone	Pastel tone
SF.BH	White HC	PW 6	1.99	67	8	8	8	5	5	5
SF.BX	Black Oxide	PBk 11	1.90	63	8	8	8	5	5	5
SF.OM	Umber	PY42 + PR101 + PB11	1.46	36	8	8	8	5	5	5
SF.UM	Ultramarine	PB 29	1.50	55	8	8	8	5	5	5
SF.BC	Cobalt Blue	PB 28	1.68	54	8	8	8	5	5	5
SF.BT	Turquoise Blue	PB 28	1.67	54	8	8	8	5	5	5
SF.GC	Cobalt Green	PG 50	2.00	60	8	8	8	5	5	5
SF.GX	Chrome Green	PG 17	2.03	63	8	8	8	5	5	5
SF.JX	Vanadate Yellow	PY 184	1.75	52	8	8	8	5	5	5
SF.JH	Oxide Yellow HC	PY 42	1.73	54	8	8	8	5	5	5
SF.OT	Titanium Orange	PO 82	1.77	52	8	8	8	5	5	5
SF.RH	Oxide Red HC	PR 101	1.89	58	8	8	8	5	5	5
SF.RM	Red Garnet	PR 168	1.24	36	8	8	8	5	5	5

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8. TOTAL SOLAR REFLECTANCE SELECTION

Code	Colorant Designation	Color Index	Density	% Pigment	Light Fastness 0 - 8			Weather Fastness 0 - 5		
					Deep tone	Medium tone	Pastel tone	Deep tone	Medium tone	Pastel tone
SF.IND	Solar Black		1.76	50	8	8	8	5	5	5
SF.JK	Brown Yellow		1.70	50	8	8	8	5	5	5
SF.KA	Solar White		2.00	65	8	8	8	5	5	5

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9. WOOD SELECTION

Code	Colorant Designation	Color Index	Density	% Pigment	Light Fastness 0 - 8	Weather Fastness 0 - 5
					Deep tone	Deep tone
TU.JO	Transparent Oxide Yellow	PY 42	1.28	28	8	5
TU.RO	Transparent Oxide Red	PR 101	1.30	28	8	5
SF.NO	Carbon Black	PBk 7	1.52	5	8	5
SF.BV	Bright Claret	PR 52:2	1.25	27	8-7	5
SF.BP	Pastel Claret	PV 19	1.31	12	8	5

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10. SPECIAL SELECTION

Code	Colorant Designation	Color Index	Density	% Pigment	Light Fastness 0 - 8			Weather Fastness 0 - 5		
					Deep tone	Medium tone	Pastel tone	Deep tone	Medium tone	Pastel tone
SF.NE	Neutral	PW 21	1.95	65	8	8	8	5	5	5
SF.BA	White	PW 6	1.85	51	8	8	8	5	5	5
SF.JO	Oxide Yellow	PY 42	1.67	45	8	8	8	5	5	5
SF.RO	Oxide Red	PR 101	1.71	25	8	8	8	5	5	5
SF.RF	Rex Red	PR 254	1.33	34	8	7	7	5	4	4
SF.ZA	Optical Whitener						8			5

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