

Innovative cost saving bi-functional range designed for standard quality goods

Sumireact S-PX		%owf	Application
Supra Yellow S-PX		2.0	Yellow dye for all trichromatic combinations: pale to deep shades; light fast and dischargeable.
Supra Red S-PX		2.0	Red dye for standard trichromatic combinations, also recommended for all red and orange shades.
Supra Blue S-PX		2.0	Blue dye for standard trichromatic combinations: pale to medium shades.
Supra Sky Blue S-PX		2.0	Recommended for dyeing all very bright and royal blue shades. Good compatibility with Sumifix HF Blue 2R due to a similar and rather fast fixation rate when dyed at 60 °C.
Supra Dark-Blue S-PX		3.0	Blue dye for standard trichromatic combinations: medium to deep shades.
Supra Marine S-PX		2.0	Navy blue dye for standard trichromatic combinations: medium to very deep shades; especially recommended for deep navy and brown shades.
Jet Black S-PX		4.0	Black dye with a high build-up, showing good dry and wet fastnesses and an excellent reserve of PES-fibres.

Properties		Supra Yellow S-PX	Supra Red S-PX	Supra Blue S-PX	Supra Sky Blue S-PX	Supra Dark-Blue S-PX	Supra Marine S-PX	Jet Black S-PX	
Swatches dyeing depth (% o.w.f.)		2.0	2.0	2.0	2.0	3.0	2.0	4.0	
Fastness properties	Chlorinated water (20ppm)		3-4	4	3	1-2	3-4	2-3	3-4
	Perspiration contact	Staining on cotton	4 4	4 4	5 5	4-5 4-5	4-5 4	4-5 4-5	5 5
		Color change	5 5	4 4-5	4-5 4-5	4-5 4-5	4-5 4-5	4-5 4-5	4-5 4-5
	Washing 60°C	Staining on cotton	4-5	5	5	4	4-5	4-5	5
		Color change	5	4-5	5	4-5	5	5	5
	Perspiration light	Alkaline	4	2-3	4	4-5	3	3	3
		Acid	4	3	4-5	4-5	3	3	3
	Light		5<	5	5<	5	5	4-5	4
Dyeing properties	Dischargeability		+	-	-	-	+	+	(+)
	Migration properties		+	+	+	(+)	+	+	+
	Optimum Exhaust dyeing temp. (°C)		60	60	60	60	60	60	50
Applicability	Printing		(+) +	(+) +	+ +	(+) (+)	(+) +	+ +	(+) +
	Continuous dyeing		+	(+)	+	+	+	+	+
	Cold Pad Batch dyeing		+	(+)	+	+	+	+	(+)
	Exhaust dyeing		+	+	+	+	+	+	+
Solubility	Salt (Na ₂ SO ₄ = 30g/l)		70	100<	100<	100	100	100<	100<
	Water, 25°C (g/l)		100<	100<	100<	100<	100<	100<	100<
Arylamine free fabric dyeings (<5ppm)		0	0	0	0	0	Δ	Δ	

Legend for the table

Quotation of applicability

- + : Suitable
- (+) : Limited suitability
- : Unsuitable

Continuous dyeing

- Upper : One bath pad-dry steam
- Lower : Two bath pad-dry steam

Printing

- Upper : One phase process
- Lower : Two phase process

Fastness

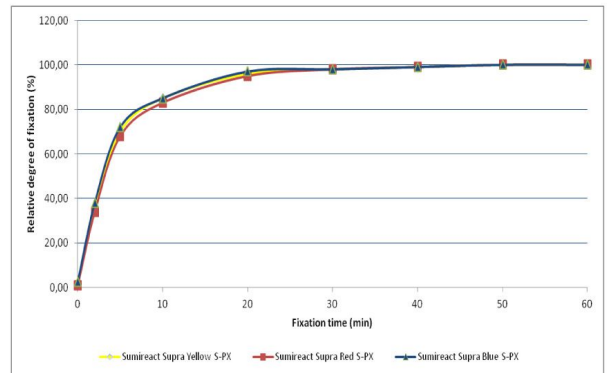
- Light : ISO 105/B02, Xenon Arc lamp
- Perspiration light : ATTS 25.7kJ/m², 420nm, 0.7W/m² Acid (upper) / Alkaline (lower)
- Washing : M&S C4A
- Perspiration contact : ISO 105 E04 Acid (upper) / Alkaline (lower)
- Chlorinated water : ISO 105 E03

- 0 : Suitable
- X : Not –suitable
- Δ : Limited concentration*

Trichromatic combinations

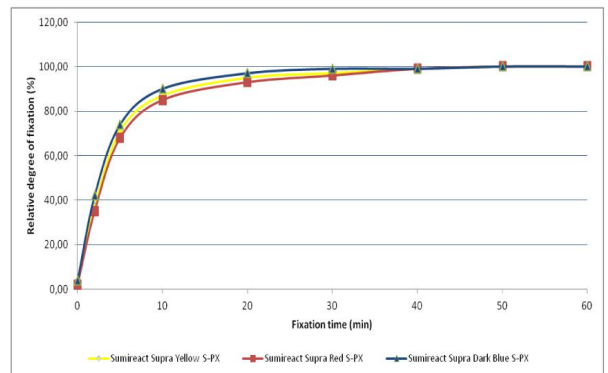
Grey Shade

Sumireact Supra Yellow S-PX	0,50%
Sumireact Supra Red S-PX	0,20%
Sumireact Supra Blue S-PX	0,30%
Total dye concentration	1,00%



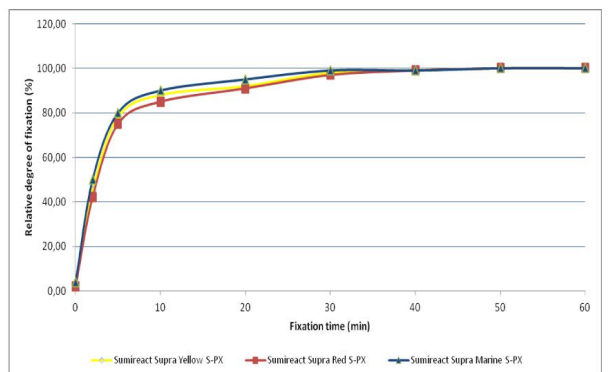
Brown Shade

Sumireact Supra Yellow S-PX	1.00 %
Sumireact Supra Red S-PX	0.75 %
Sumireact Supra Dark Blue S-PX	0.75 %
Total dye concentration	2.50%



Brown Shade

Sumireact Supra Yellow S-PX	1.35 %
Sumireact Supra Red S-PX	0.90 %
Sumireact Supra Marine S-PX	0.75 %
Total dye concentration	3.00 %



Trichromatic combinations recommended for exhaust dyeing on cotton and viscose:

Sumireact Supra S-PX dyes

Standard shades

Shade	Yellow element	Red element	Blue element
Pale to medium	SR SP Yellow S-PX	SR SP Red S-PX	SR SP Blue S-PX
Medium to deep	SR SP Yellow S-PX	SR SP Red S-PX	SR SP Dark Blue S-PX SR SP Marine S-PX
Deep	SR SP Yellow S-PX	SR SP Red S-PX	SR SP Dark Blue S-PX SR SP Marine S-PX

Non Standard Shades

Shade	Yellow element	Red element	Blue element
Bright Green and Turquoise	SF SP Lemon Yellow E-XF	SR SP Red S-PX	SR SP Blue S-PX SR SP Sky Blue S-PX SR Turquoise Blue G Conc.
Scarlet and Marlboro Red	SF SP Lemon Yellow E-XF SR SP Yellow S-PX	SR SP Red S-PX SF SP Scarlet E-XF SR SP Br. Orange RL 150% SF SP Scarlet 2GF 150%	SR SP Blue S-PX
Deep Red	SR SP Yellow S-PX	SR SP Red S-PX SF SP Bordeaux E-XF SF SP Rubine E-XF SR SP Deep Red S-HBU SR SP Crimson S-HBU	SR SP Blue S-PX
Special Blues: Royal-, Electric-, Sky-, Bright Blue		SR SP Red S-PX SF SP Br. Red 3BF 150%	SR SP Blue S-PX SR SP Sky Blue S-PX SF SP Blue BRF 150% SF Br. Blue R Spl SF Br. Blue R 150% SR Turq. Blue G Conc.
Black shades	SR SP Yellow S-PX	SR SP Red S-PX	SR Jet Black S-PX SR Ultra Black S-HBU SF Black B(A) 150% gran SF Black EX(A) Conc gran SR SP Marine S-PX