

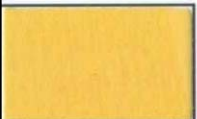

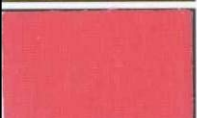



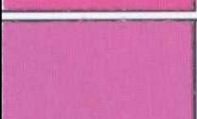

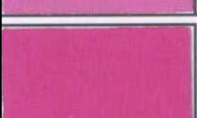
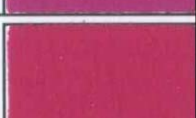
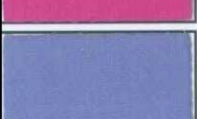


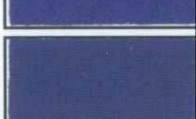


Tecofix	0.5%	2%	C.I. Reactive	Xenonlicht Xenon lamp 1/1 RTT 1/1 SD	Wäsche Washing 60 °C			Schweiss Perspiration						Chlorbadewasser Chlorinated bath water 20 mg/l	KKV Cold pad batch	Ätzbarkeit Discharge- ability
					N	CO	WO	acidic/sauer			alk./alk.					
					N	CO	WO	N	CO	WO	N	CO	WO			
Brillantgelb BF-4G Brilliant Yellow BF-4G			Y 160 s	4-5	5	5	4-5	5	4-5	5	5	4-5	5	3-4	(+)	▲
Gelb BF-3R Yellow BF-3R			Y 145	5-6	5	5	5	5	4-5	5	5	4-5	5	4-5	+	▲
Scharlach BF-2G Scarlet BF-2G			R 222	4	4-5	4-5	4-5	4-5	4-5	5	4-5	4-5	5	4	(+)	○
Rot BF-2B Red BF-2B			R 194	5	4-5	5	5	4-5	4-5	4-5	4-5	4-5	5	4	(+)	▲
Rot BF-LF Red BF-LF			R Mix	6	5	5	4-5	5	5	5	5	5	5	4-5	+	▲
Brilliantrot BF-3B Brilliant Red BF-3B			R 195	4-5	4-5	5	5	4	4	4-5	4-5	4-5	4-5	4-5	+	▲
Blau BF-BR Blue BF-BR			B 221	6-7	4-5	4-5	5	4-5	4	5	4-5	4	5	3	-	●
Blau BF-R Blue BF-R			B Mix	5-6	4-5	4	4-5	4-5	4	4-5	4-5	4-5	4-5	4	+	▲

Tecofix	2%	4%	C.I. Reactive	Xenonlicht Xenon lamp 1/1 RTT 1/1 SD	Wäsche Washing 60 °C			Schweiss Perspiration						Chlorbadewasser Chlorinated bath water 20 mg/l	KKV Cold pad batch	Ätzbarkeit Discharge- ability
					N	CO	WO	acidic/sauer			alk./alk.					
					N	CO	WO	N	CO	WO	N	CO	WO			
Marineblau BF-RN Navy BF-RN			B 194	4-5	4-5	4	5	4	4	4-5	4-5	4	4-5	3-4	(+)	▲
Marineblau BF-B Navy BF-B			B 222	4-5	5	4-5	5	4	4	4-5	4	3-4	5	3	+	●
Schwarz BF-GR 115% Black BF-GR 115%			Blk Mix	4-5	5	4-5	4	4-5	4-5	5	4	4-5	4-5	2-3	+	▲

Tecofix BF dyestuffs are bifunctional reactive dyestuffs to dye all cellulose fibres by exhaust and continuous processes. They are especially known for their high reliability, their simple dyeing processes and their excellent fastness level. The high reproducibility results from the fact that the dyestuffs are resistant to small variations of the dyeing parameters.

Key to the fastness

N = change of shade
CO = staining of cotton
WO = staining of wool

Light fastness ISO 105 – B02	Washing 60 °C ISO 105 - C06
Perspiration fastness ISO 105 – E04	Chlorinated bath water ISO – E03
Mercerising ISO 105 – X04	

The fastness tests were carried out on dyeings at 1/1 standard depth of shade.

Explanation of the signs

Cold-pad batch suitability		Dischargeability	
+	very good	●	dischargeable
(+)	limited	○	still dischargeable
		▲	not dischargeable

Recommended chemicals:

Alvicon GBU	Multifunctional special product for pretreatment, bleaching and dyeing. Anionic
Alvicon FLD	Skin-friendly, environmentally compatible special product for pre-treatment, bleaching and dyeing. Anionic.
Alvicon VKS	Deaerating and foam suppressing agent for textile wet finishing processes. Nonionic
TC-Fix and Wash RF	Special product for fixing and soaping of reactive dyestuffs. Not surface active

Exhaust method 60 °C, liquor ratio 1:10

additions in g/l	depth of shade			
	up to 0.5 %	0.5 – 1.0 %	1.0 – 3.0 %	above 3.0 %
TC-Fix and Wash RF*	1.0 – 2.0	2.0 – 2.5	2.5 – 3.5	4.0 ¹
Glauber's salt calc.	20 – 30	30 – 40	40 – 60	60 – 80

* pay attention to the indications on the technical data sheet

¹ with very deep shades the amount of TC-FIX and WASH RF can be increased to 7 g/l

Procedure

Standard process

Set bath at 20 – 30 °C

Put salt and 1/3 of the TC-Fix and Wash RF amount first
Add

0.5 to 2.0 g/l Alvicon GBU
0.5 to 2.0 g/l Alvicon FLD
0.5 to 2.0 g/l Alvicon VKS

Run for 5 min

Add the dissolved dyestuff
within 15 to 20 min

Run for 10 min

Heat up to 60 °C at 1.0 °C/min

Run for 10 to 15 min

Dissolve the remaining TC-Fix and Wash RF amount
and add it within 15 to 20 min

Run for 30 to 45 min

Rinse with overflow, cold and warm, acidify

Isothermal process

Set bath at 60 °C

Put salt first
Add

0.5 to 2.0 g/l Alvicon GBU
0.5 to 2.0 g/l Alvicon FLD
0.5 to 2.0 g/l Alvicon VKS

Run for 5 min

Add the dissolved dyestuff
within 15 to 20 min

Run for 10 min

Dissolve the TC-Fix and Wash RF amount and
add progressively within 15 to 20 min

Run for 30 to 45 min

Rinse with overflow, cold and warm, acidify

In order to achieve an optimal fastness on the dyeings, they have to be rinsed thoroughly and aftersoaped with TC-Fix and Wash RF at temperatures between 90 °C and 95 °C. Rinse and neutralise after soaping.

The information submitted in this publication is based on our current knowledge and experience. In view of the many factors that may affect processing and application, this data does not relieve processors from the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

Cold Pad Batch Process

Excellent results are achievable with the modified sodium silicate formula

Dyestuff solution

X	g/l	dyestuff
3 - 8	g/l	Alviron FLD
1 - 3	g/l	TC-Schnellnetzer KE

Alkali solution

see table on the right

Modified sodium silicate formula

Sodium hydroxide solution 38 °Bé in relation to the dyestuff amount:

addition in ml/l	dyestuff amount in g/l					
	up to 20	20 - 30	30 - 40	40 - 50	50 - 60	> 60
Sodium silicate 38 °Bé	50	50	50	50	50	50
NaOH 38 °Bé	20	22	25	28.5	31	31 - 35

Preparation of a padding liquor

Dyestuff and alkali solution are prepared separately and are added over dosing pumps into the padding trough. It is of advantage to use a ratio of 4 parts dyestuff solution to 1 part alkali solution

Temperature of the padding liquor: 20 – 25 °C. The data in ml/l and g/l are referring to the total volume of the padding liquor

The durability of the padding liquor varies depending on the dyestuff and padding liquor formulation

Batching time: 4 – 24 hours

Influence of the sodium silicate concentration on the application amount

Sodium silicate concentration in °Bé	Required sodium silicate amount in ml/l
37 – 40	50
40 – 42	40
48 – 50	35
58 – 60	30

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