Innovatint version 3 Standard characterization mixtures Lab



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1. Overview

All mixtures are to be made in volume.

Always use the exact density on the colorant can to make the mixtures in the lab.

All mixtures to be made on 250 microns.

2. Clear base characterization

2.1 Bootstrap

The bootstrap is a set of mixtures to characterize your system white, system black and the transparent base. These 3 components will be used in the characterization of all other colorants.

The mixtures are determined based on the maximum colorant addition.

	Mire Dadia	Pa	art (%)
	Mix Ratio	Black	White
Mixture 1	Mass tone black colorant	100	0
Mixture 2	5/95	5	95
Mixture 3	15/85	15	<i>85</i>
Mixture 4	40/60	40	60
Mixture 5	80/20	80	20
Mixture 6	100/0	100	0
Mixture 7	40/0	40	0
Mixture 8	15/0	15	0
Mixture 9	Mass tone white colorant	0	100
Mixture 10	Mass tone clear base	0	0

Example where the maximum colorant addition is 7% and the base has a fill level of 93%.

	14' D ''		Part (ml)
	Mix Ratio	Black	White	Clear base
Mixture 1	Mass tone black colorant	70	0	930
Mixture 2	5/95	3,5	66.5	930
Mixture 3	15/85	10,5	59,5	930
Mixture 4	40/60	28	42	930
Mixture 5	80/20	<i>56</i>	14	930
Mixture 6	100/0	70	0	930
Mixture 7	40/0	28	0	930
Mixture 8	15/0	10,5	0	930
Mixture 9	Mass tone white colorant	0	70	930
Mixture 10	Mass tone clear base	0	0	930

All mixtures have to be activated.



2.2 Colorants

The mixtures are determined based on the fill level of the base and maximum colorant addition. For blue and green colorant use a double amount of black -> 98% colorant and 2% of black.

	Adi a Badia		Part (%)	
	Mix Ratio	COL	Black	White
Mixture 1	Mass tone	100	0	0
Mixture 2	5/95 %	5	0	<i>95</i>
Mixture 3	15/85 %	15	0	<i>85</i>
Mixture 4	40/60 %	40	0	60
Mixture 5	80/20 %	80	0	20
Mixture 6	99/1 %	99	1	0

Example where the maximum colorant addition is 7% and the base has a fill level of 93%.

	Adia Badia	Part (ml)			
	Mix Ratio	COL	Black	White	Clear base
Mixture 1	Mass tone	70	0	0	930
Mixture 2	5/95 %	3,5	0	66,5	930
Mixture 3	15/85 %	10,5	0	59,5	930
Mixture 4	40/60 %	28	0	42	930
Mixture 5	80/20 %	<i>56</i>	0	14	930
Mixture 6	99/1 %	69,3	0,7	0	930

2.3 White bases

Additional white bases can be characterized with the following mixtures. The mixtures are determined based on the maximum colorant addition.

		Part (%)
	Mix Ratio	Black
Mixture 1	Max. Col. Ad.	100
Mixture 2	Black Addition 40 %	40
Mixture 3	Black Addition 15 %	15
Mixture 4	Black Addition 10 %	10
Mixture 5	Black Addition 5 %	5
Mixture 6	Mass tone white base	0



Example where the maximum colorant addition is 1,6% and the base has a fill level of 100%.

	14' D'	P	art (ml)
	Mix Ratio	Black	White base
Mixture 1	Max. Col. Ad.	16	1000
Mixture 2	Black Addition 40 %	6,4	1000
Mixture 3	Black Addition 15 %	2,4	1000
Mixture 4	Black Addition 10 %	1,6	1000
Mixture 5	Black Addition 5 %	0,8	1000
Mixture 6	Mass tone white base	0	1000

2.4 Clear bases

Additional clear bases can be characterized with the following mixtures. The mixtures are determined based on the maximum colorant addition.

	Adia Dadia	Part	t (%)
	Mix Ratio	Black	White
Mixture 1	Black Addition 100%	100	0
Mixture 2	Black Addition 40 %	40	0
Mixture 3	Black Addition 15 %	15	0
Mixture 4	White Addition 100%	0	100
Mixture 5	Mass tone clear base	0	0

Example where the maximum colorant addition is 7% and the base has a fill level of 93%.

	Min Davis	Part (ml)		
	Mix Ratio	Black	White	Clear base
Mixture 1	Black Addition 100%	70	0	930
Mixture 2	Black Addition 40 %	28	0	930
Mixture 3	Black Addition 15 %	10,5	0	930
Mixture 4	White Addition 100%	0	70	930
Mixture 5	Mass tone clear base	0	0	930



2.5 Colored bases

Additional colored bases can be characterized with the following mixtures.

The mixtures are determined based on the maximum colorant addition.

	A41 D 41	Part (%)	
	Mix Ratio	White	Black
Mixture 1	1/99 %	1	0
Mixture 2	15/85 %	<i>15</i>	0
Mixture 3	40/60 %	40	0
Mixture 4	80/20 %	80	0
Mixture 5	100/0 %	100	0
Mixture 6	98/2 %	0	2
Mixture 7	Mass tone colored base	0	0

Example where the maximum colorant addition is 7% and the base has a fill level of 93%.

	Adia Dadia	Part (ml)		
	Mix Ratio	White	Black	Colored base
Mixture 1	1/99 %	0,7	0	930
Mixture 2	15/85 %	10,5	0	930
Mixture 3	40/60 %	28	0	930
Mixture 4	80/20 %	56	0	930
Mixture 5	100/0 %	70	0	930
Mixture 6	98/2 %	0	1,4	930
Mixture 7	Mass tone colored base	0	0	930



3. White base characterization

3.1 Bootstrap

The characterization of colorants in the white base requires also the use a clear base. The white base will be used as a replacement of the white colorant.

	Mix Ratio	Part (%) Black
Mixture 1	Pure white base	0
Mixture 2	5 %	5
Mixture 3	15 %	15
Mixture 4	40 %	40
Mixture 5	80 %	80
Mixture 6	Mass tone white base	100
Mixture 7	Mass tone clear base	100
Mixture 8	Pure clear base	0

Example where the colorant addition is 3% in the white base (base is 100%) and 7% in the transparent base (base is 93%).

	Adia Dania	Part (ml)			
	Mix Ratio	Black	White base	Clear base	
Mixture 1	Pure white base	0	1000	0	
Mixture 2	5 %	1,5	1000	0	
Mixture 3	15 %	4,5	1000	0	
Mixture 4	40 %	12	1000	0	
Mixture 5	80 %	24	1000	0	
Mixture 6	Mass tone white base	30	1000	0	
Mixture 7	Mass tone clear base	70	0	930	
Mixture 8	Pure clear base	0	0	930	

3.2 Colorants

The mixtures are determined based on the fill level of the base and maximum colorant addition.



	Mix Ratio	Part (%) COL
Mixture 1	Mass tone	100
Mixture 2	5 %	5
Mixture 3	15 %	15
Mixture 4	40 %	40
Mixture 5	80 %	80
Mixture 6	Mass tone clear base	100

Example where the colorant addition is 3% in the white base (base is 100%) and 7% in the transparent base (base is 93%).

	All Darle	Part (ml)		
	Mix Ratio	COL	White base	Clear base
Mixture 1	Mass tone	30	1000	0
Mixture 2	5 %	1,5	1000	0
Mixture 3	15 %	4,5	1000	0
Mixture 4	40 %	12	1000	0
Mixture 5	80 %	24	1000	0
Mixture 6	Mass tone clear base	70	0	930

3.3 White bases

Additional white bases can be characterized with the following mixtures. The mixtures are determined based on the maximum colorant addition.

	Min Davis	Part (%)
	Mix Ratio	Black
Mixture 1	Max. Col. Ad.	100
Mixture 2	Black Addition 40 %	40
Mixture 3	Black Addition 15 %	15
Mixture 4	Black Addition 10 %	10
Mixture 5	Black Addition 5 %	5
Mixture 6	Mass tone white base	o



Example where the maximum colorant addition is 1,6% and the base has a fill level of 100%.

		Part (ml)		
	Mix Ratio	Black	White base	
Mixture 1	Max. Col. Ad.	16	1000	
Mixture 2	Black Addition 40 %	6,4	1000	
Mixture 3	Black Addition 15 %	2,4	1000	
Mixture 4	Black Addition 10 %	1,6	1000	
Mixture 5	Black Addition 5 %	0,8	1000	
Mixture 6	Mass tone white base	0	1000	

3.4 Clear bases

Additional clear bases can be characterized with the following mixtures. The mixtures are determined based on the maximum colorant addition.

	Miss Davis	Part (%)		
	Mix Ratio	Black	White base	
Mixture 1	Black Addition 100%	100	0	
Mixture 2	Black Addition 40 %	40	0	
Mixture 3	Black Addition 15 %	15	0	
Mixture 4	Black Addition 10 %	10	0	
Mixture 5	Black Addition 5 %	5	0	
Mixture 6	White Addition 100%	0	100	
Mixture 7	Mass tone clear base	o	o	

Example where the maximum colorant addition is 7% and the base has a fill level of 93%.

	Min Davis	Part (ml)		Part (ml)
	Mix Ratio	Black	White base	Clear base
Mixture 1	Black Addition 100%	70	0	930
Mixture 2	Black Addition 40 %	28	0	930
Mixture 3	Black Addition 15 %	10,5	0	930
Mixture 4	Black Addition 10 %	7	0	930
Mixture 5	Black Addition 5 %	0,7	0	930
Mixture 6	White Addition 100%	0	70	930
Mixture 7	Mass tone clear base	o	o	930

3.5 Colored bases

Additional colored bases can be characterized with the following mixtures.



The mixtures are determined based on the fill level of the base.

		Part (%)	
	Mix Ratio	White base	Black
Mixture 1	80/20 %	80	0
Mixture 2	60/40 %	60	0
Mixture 3	20/80 %	20	0
Mixture 4	98/0.2 %	0	2
Mixture 5	Mass tone colored base	0	0

Example where the base has a fill level of 100%.

		Part (ml)		
	Mix Ratio	White		
		base	Black	Colored base
Mixture 1	80/20 %	800	0	200
Mixture 2	60/40 %	600	0	400
Mixture 3	20/80 %	200	0	800
Mixture 4	98/0.2 %	0	2	1000
Mixture 5	Mass tone colored base	0	0	1000