



full spectrum deep™

permanent vegan treatment hair color
hair color chart

AVEDA

Full Spectrum Deep™

Permanent Vegan Treatment Hair Color



Components

Full Spectrum Deep™ is designed for ultimate customization through a simple component system of base + tone + **Color Catalyst™ Conditioning Creme Developer**.

Natural Series

Ten **Natural Series** shades range from 2–14. Each shade is represented by a number followed by N, which indicates the natural shade (e.g., 6Natural).

Pure Tones

Each **Pure Tone** is represented by two letters indicating tone. The first letter represents the primary (strongest) tone, and the second letter represents the secondary (complementary) tone.

Light Pure Tones (Shades 8–14)	Dark Pure Tones (Shades 4–7)
Light Natural/Natural (N/N)	Dark Natural/Natural (N/N)
Light Yellow/Green (Y/G)	Dark Green/Yellow (G/Y)
Light Yellow/Orange (Y/O)	Dark Yellow/Orange (Y/O)
Light Orange/Yellow (O/Y)	Dark Orange/Red (O/R)
Light Red/Red (R/R)	Dark Red/Red (R/R)
Light Red/Violet (R/V)	Dark Red/Violet (R/V)
Pink (P)	Dark Green/Blue (G/B)
Light Green/Green (G/G)	Dark Grey/Blue (Gr/B)
Grey (Gr)	Dark Green/Grey (G/Gr)
Light Blue/Grey (B/Gr)	
Light Blue/Blue (B/B)	
Light Blue/Violet (B/V)	
Light Violet/Violet (V/V)	
Light Violet/Grey (V/Gr)	

Universal ØN Creme

A virtually colorless, ammonia-free base that enhances hair with condition and shine.

Color Catalyst™ Conditioning Creme Developer

Customize tonality, intensity, coverage and lift by choosing **5–40 Volume Color Catalyst™** and a 20–30-minute processing time.

Bright Base

A virtually colorless base used to achieve three levels of vibrancy:

- **Bright formula:** Mix equal amounts **Natural Series** and **Bright Base** with the recommended amount of **Pure Tone** for the shade.
- **Brighter formula:** Mix **Bright Base** with the recommended amount of **Pure Tone** for the shade.
- **Brightest:** Mix equal amounts **Bright Base** and **Pure Tone**.

Red Base

When mixed with red **Pure Tones**, achieves more vibrant, reflective red results.

Green Base

Helps neutralize unwanted red tones.

Blue Base

Helps neutralize unwanted orange tones.

Violet Base

Helps create beige results by softening warmth.

Choose the appropriate base to help neutralize or enhance the natural remaining pigment (NRP) according to the desired result.

LEVEL	DESCRIPTOR	NATURAL REMAINING PIGMENT	COMPLEMENTARY PIGMENT	BASE
10	Lightest Blonde	Pale Yellow	Violet	Violet Base
9	Very Light Blonde	Yellow		
8	Light Blonde	Yellow/Orange	Blue/Violet	Blue Base
7	Medium Blonde	Orange	Blue	
6	Dark Blonde	Red/Orange	Blue/Green	Green Base
5	Lightest Brown	Red	Green	
4	Light Brown			
3	Medium Brown			
2	Dark Brown			
1	Black			

Color Catalyst™ Conditioning Creme Developer selection guidelines

	DESIRED RESULT	COLOR CATALYST™	PROCESSING TIME (ROOM TEMPERATURE)
GOING LIGHTER	Use for standard lift and grey coverage	20 Volume	Up to 30 minutes
GOING LIGHTER WITH EXTRA LIFT*	Use 30 Volume for up to half a level of additional lift Use 40 Volume for up to one level of additional lift	30 or 40 Volume	Up to 30 minutes
GOING DARKER	Use for maximum deposit	5 or 10 Volume	20 minutes

Removal guidelines

1	Rinse the hair thoroughly with comfortably warm water until the water runs clear.
2	Shampoo twice with Color Conserve™ Shampoo , and ensure all color is removed from the scalp. Rinse thoroughly, and squeeze excess moisture from the hair.
3	Condition with Color Conserve™ Conditioner , and rinse.

Formulation guidelines

Full Spectrum Deep™ is an extra lifting and depositing hair color. The result achieved is based on the guest's natural level and the **Natural Series** shade used. The standard formulation is made with **20 Volume Color Catalyst™ Conditioning Creme Developer** because the amount of lift varies by shade; the higher the number, the higher the lift.

1	Identify the guest's natural level, and locate it along the far left column on the formulation chart below.
2	Determine the guest's desired level, and locate it along the top row.
3	Use one of the following methods to determine the Natural Series shade to use: The point at which the natural level and desired level meet on the formulation chart below indicates the Natural Series shade needed to achieve the desired result. OR Desired Level + (Desired Level – Natural Level) = Shade (Example: Desired Level 8 + (Desired Level 8 – Natural Level 4) = Shade 12)
4	Choose the appropriate Pure Tone or base (Red Base, Green Base, Blue Base, Violet Base) to achieve the desired tonal result. Note that the guest's natural remaining pigment (NRP) will impact the final result.

FULL SPECTRUM DEEP™ FORMULATION CHART											
DESIRED LEVEL	1	2	3	4	5	6	7	8	9*	10*	
	Going darker with 5 or 10 Volume Color Catalyst™—shade selection with depth										
NATURAL LEVEL	6	2N	2N/4N**	4N	5N	6N	7N	8N	10N	12N	14N
	5	2N	2N/4N**	4N	5N	6N	7N	9N	10N/12N**	12N/14N**	
	4	2N	2N/4N**	4N	5N	6N	8N	10N	12N	14N	
	3	2N	2N/4N**	4N	5N	7N	9N	10N/12N**	12N/14N**	Hair must be prelightened to achieve these levels. Full Spectrum Deep™ is not recommended.	
	2	2N	2N/4N**	4N	6N	8N	10N	12N	14N		
	1	2N	2N/4N**	5N	7N	9N	10N/12N**	12N/14N**			
		Going lighter with 20 Volume Color Catalyst™—shade selection with natural remaining pigment (NRP)									

Hair must be prelightened to achieve these levels.
Full Spectrum Deep™ is not recommended.

Mixing and processing guidelines

Mix the total amount of **Full Spectrum Deep™** components with **Color Catalyst™ Conditioning Creme Developer** in a 1:2 ratio. Process at room temperature. Do not use heat.

NATURAL SERIES SHADE	PURE TONE	COLOR CATALYST™ 1:2 RATIO	TOTAL COLOR MIXTURE
14N 12N 7N	2 g	44 ml	66 ml
10N 6N	4 g	48 ml	72 ml
9N 5N	6 g	52 ml	78 ml
8N 4N	8 g	56 ml	84 ml

MIXING WITH BASES

Mix 5 g of the chosen base (**Red Base, Green Base, Blue Base, Violet Base**) with 15 g of the chosen **Natural Series** shade. Follow the **Pure Tone** and **Color Catalyst™** measurements above for the chosen shade.

Grey coverage guidelines

Use the following guidelines to achieve the desired grey coverage result. **Natural Series** is formulated to provide maximum grey coverage without excess warmth or coolness.

NATURAL GREY COVERAGE		
Mix the total amount of Full Spectrum Deep™ components with Color Catalyst™ Conditioning Creme Developer in a 1:2 ratio. Process at room temperature. Do not use heat.		
20 g 7N	2 g Dark N/N	44 ml 20 Volume Color Catalyst™
MAXIMUM GREY COVERAGE		
Mix Natural Series with Color Catalyst™ Conditioning Creme Developer in a 1:2 ratio. Process at room temperature. Do not use heat. Do not adjust Color Catalyst™ for the addition of Pure Tone .		
20 g 7N	2 g Dark N/N	40 ml 20 Volume Color Catalyst™

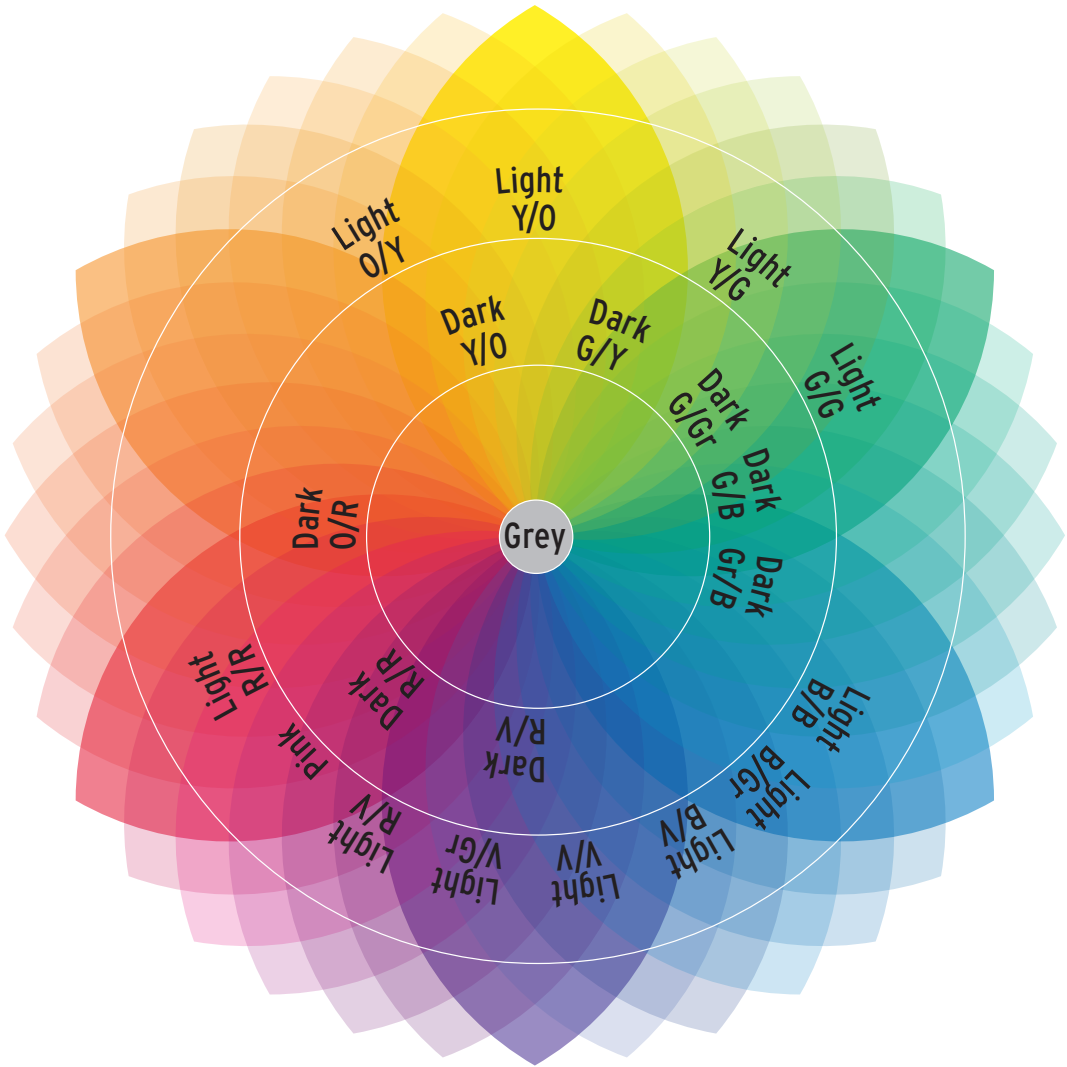
*For off-the-scalp applications only. **Represents equal parts of each shade.

Natural remaining pigment (NRP)

NRP is the tonal value that the hair contributes as it lightens. It is important to determine the NRP the hair will contribute at the desired level prior to applying hair color. After you identify the NRP at the desired level, determine whether you want to neutralize or enhance the NRP, and choose the appropriate tone accordingly using the color wheel.

TONAL RESULT GUIDELINES	
TO NEUTRALIZE	Choose tones that are complementary to the NRP at the desired level.
TO ENHANCE	Choose tones that are the same as the NRP at the desired level.

LEVEL	DESCRIPTOR	NATURAL REMAINING PIGMENT	COMPLEMENTARY PIGMENT
10	Lightest Blonde	Pale Yellow	Violet
9	Very Light Blonde	Yellow	
8	Light Blonde	Yellow/Orange	Blue/Violet
7	Medium Blonde	Orange	Blue
6	Dark Blonde	Red/Orange	Blue/Green
5	Lightest Brown	Red	Green
4	Light Brown		
3	Medium Brown		
2	Dark Brown		
1	Black		



ALL SPLIT SWATCH FORMULAS ARE SHOWN ON WHITE AND LEVEL 2 SWATCHES. Further customization can be achieved by mixing 50% more or less than the recommended **Pure Tone** to adjust the intensity of the tone. **STRONG FORMULA:** 50% more **Pure Tone** than recommended at the shade. **SOFT FORMULA:** 50% less **Pure Tone** than recommended at the shade. Mix the total amount of **Full Spectrum Deep™** components with **Color Catalyst™ Conditioning Creme Developer** in a 1:2 ratio.

full spectrum deep™ customization chart—warm

NATURAL SERIES CUSTOMIZATION										VIBRANT RED SERIES CUSTOMIZATION		
LEVEL	STONE	NATURAL	NATURAL/NATURAL	MATTE	GOLD	COPPER	RED/RED	RED/VIOLET	PINK	VIBRANT COPPER	VIBRANT RED	VIBRANT RED/VIOLET
Ø	Ø	UNIVERSAL ØN	UNIVERSAL ØN can be used to customize all bases and pure tones									
		BRIGHT BASE	BRIGHT BASE can be used to customize lift without deposit across all bases and pure tones									
LIGHT	14											
		14NATURAL		20 g 14N 2 g Light Y/G	20 g 14N 2 g Light Y/O	20 g 14N 2 g Light O/Y	20 g 14N 2 g Light R/R	20 g 14N 2 g Light R/V	20 g 14N 2 g P			
	12											
		12NATURAL		20 g 12N 2 g Light Y/G	20 g 12N 2 g Light Y/O	20 g 12N 2 g Light O/Y	20 g 12N 2 g Light R/R	20 g 12N 2 g Light R/V	20 g 12N 2 g P			
	10											
		10NATURAL		20 g 10N 4 g Light N/N	20 g 10N 4 g Light Y/G	20 g 10N 4 g Light Y/O	20 g 10N 4 g Light O/Y	20 g 10N 4 g Light R/R	20 g 10N 4 g Light R/V			
	9											
		9NATURAL		20 g 9N 6 g Light N/N	20 g 9N 6 g Light Y/G	20 g 9N 6 g Light Y/O	20 g 9N 6 g Light O/Y	20 g 9N 6 g Light R/R	20 g 9N 6 g Light R/V			
	8											
		8NATURAL		20 g 8N 8 g Light N/N	20 g 8N 8 g Light Y/G	20 g 8N 8 g Light Y/O	20 g 8N 8 g Light O/Y	20 g 8N 8 g Light R/R	20 g 8N 8 g Light R/V			
LIGHT PURE TONES			LIGHT NATURAL/NATURAL	LIGHT YELLOW/GREEN	LIGHT YELLOW/ORANGE	LIGHT ORANGE/YELLOW	LIGHT RED/RED	LIGHT RED/VIOLET	PINK	LIGHT ORANGE/YELLOW	LIGHT RED/RED	LIGHT RED/VIOLET
DARK	7											
		7NATURAL		20 g 7N 2 g Dark N/N	20 g 7N 2 g Dark G/Y	20 g 7N 2 g Dark Y/O	20 g 7N 2 g Dark O/R	20 g 7N 2 g Dark R/R				20 g 7N 2 g Dark R/V
	6											
		6NATURAL		20 g 6N 4 g Dark N/N	20 g 6N 4 g Dark G/Y	20 g 6N 4 g Dark Y/O	20 g 6N 4 g Dark O/R	20 g 6N 4 g Dark R/R				20 g 6N 4 g Dark R/V
	5											
		5NATURAL		20 g 5N 6 g Dark N/N	20 g 5N 6 g Dark G/Y	20 g 5N 6 g Dark Y/O	20 g 5N 6 g Dark O/R	20 g 5N 6 g Dark R/R				20 g 5N 6 g Dark R/V
	4											
4NATURAL		20 g 4N 8 g Dark N/N		20 g 4N 8 g Dark G/Y	20 g 4N 8 g Dark Y/O	20 g 4N 8 g Dark O/R	20 g 4N 8 g Dark R/R	20 g 4N 8 g Dark R/V				
2		Not recommended for customization										
	2NATURAL											
DARK PURE TONES			DARK NATURAL/NATURAL	DARK GREEN/YELLOW	DARK YELLOW/ORANGE	DARK ORANGE/RED	DARK RED/RED	DARK RED/VIOLET		DARK ORANGE/RED	DARK RED/RED	DARK RED/VIOLET

full spectrum deep™ customization chart—cool

NATURAL SERIES CUSTOMIZATION											BASE CUSTOMIZATION							
LEVEL	ZONE	NATURAL	NATURAL/NATURAL	INTENSE MATTE	GREY	GREY ASH	BLUE ASH	VIOLET ASH	SOFT ASH	BEIGE ASH	GREEN BASE	BLUE BASE	VIOLET BASE					
Ø	Ø	UNIVERSAL ØN	UNIVERSAL ØN can be used to customize all bases and pure tones															
		BRIGHT BASE	BRIGHT BASE can be used to customize lift without deposit across all bases and pure tones															
LIGHT	14																	
		14NATURAL		14 G/G 20 g 14N 2 g Light G/G	14 Gr 20 g 14N 2 g Gr	14 B/Gr 20 g 14N 2 g Light B/Gr	14 B/B 20 g 14N 2 g Light B/B	14 B/V 20 g 14N 2 g Light B/V	14 V/V 20 g 14N 2 g Light V/V	14 V/Gr 20 g 14N 2 g Light V/Gr								
	12																	
		12NATURAL		12 G/G 20 g 12N 2 g Light G/G	12 Gr 20 g 12N 2 g Gr	12 B/Gr 20 g 12N 2 g Light B/Gr	12 B/B 20 g 12N 2 g Light B/B	12 B/V 20 g 12N 2 g Light B/V	12 V/V 20 g 12N 2 g Light V/V	12 V/Gr 20 g 12N 2 g Light V/Gr	10 g Green Base 10 g 12N	10 g Blue Base 10 g 12N	10 g Violet Base 10 g 12N					
	10																	
		10NATURAL		10N/N 20 g 10N 4 g Light N/N	10 G/G 20 g 10N 4 g Light G/G	10 Gr 20 g 10N 4 g Gr	10 B/Gr 20 g 10N 4 g Light B/Gr	10 B/B 20 g 10N 4 g Light B/B	10 B/V 20 g 10N 4 g Light B/V	10 V/V 20 g 10N 4 g Light V/V	10 V/Gr 20 g 10N 4 g Light V/Gr							
	9																	
		9NATURAL		9N/N 20 g 9N 6 g Light N/N	9 G/G 20 g 9N 6 g Light G/G	9 Gr 20 g 9N 6 g Gr	9 B/Gr 20 g 9N 6 g Light B/Gr	9 B/B 20 g 9N 6 g Light B/B	9 B/V 20 g 9N 6 g Light B/V	9 V/V 20 g 9N 6 g Light V/V	9 V/Gr 20 g 9N 6 g Light V/Gr							
	8																	
		8NATURAL		8N/N 20 g 8N 8 g Light N/N	8 G/G 20 g 8N 8 g Light G/G	8 Gr 20 g 8N 8 g Gr	8 B/Gr 20 g 8N 8 g Light B/Gr	8 B/B 20 g 8N 8 g Light B/B	8 B/V 20 g 8N 8 g Light B/V	8 V/V 20 g 8N 8 g Light V/V	8 V/Gr 20 g 8N 8 g Light V/Gr							
LIGHT PURE TONES			LIGHT NATURAL/NATURAL	LIGHT GREEN/GREEN	GREY	LIGHT BLUE/GREY	LIGHT BLUE/BLUE	LIGHT BLUE/VIOLET	LIGHT VIOLET/VIOLET	LIGHT VIOLET/GREY								
DARK	7				Not recommended for customization		Not recommended for customization											
		7NATURAL		7N/N 20 g 7N 2 g Dark N/N		7 G/B 20 g 7N 2 g Dark G/B				7 Gr/B 20 g 7N 2 g Dark Gr/B	7 G/Gr 20 g 7N 2 g Dark G/Gr							
	6																	
		6NATURAL		6N/N 20 g 6N 4 g Dark N/N		6 G/B 20 g 6N 4 g Dark G/B				6 Gr/B 20 g 6N 4 g Dark Gr/B	6 G/Gr 20 g 6N 4 g Dark G/Gr							
	5																	
		5NATURAL		5N/N 20 g 5N 6 g Dark N/N		5 G/B 20 g 5N 6 g Dark G/B				5 Gr/B 20 g 5N 6 g Dark Gr/B	5 G/Gr 20 g 5N 6 g Dark G/Gr							
	4																	
		4NATURAL		4N/N 20 g 4N 8 g Dark N/N		4 G/B 20 g 4N 8 g Dark G/B				4 Gr/B 20 g 4N 8 g Dark Gr/B	4 G/Gr 20 g 4N 8 g Dark G/Gr							
	2		Not recommended for customization															
		2NATURAL																
DARK PURE TONES			DARK NATURAL/NATURAL	DARK GREEN/BLUE		DARK GREY/BLUE				DARK GREEN/GREY								

BASE CUSTOMIZATION		
GREEN BASE	BLUE BASE	VIOLET BASE
20 g Green Base	20 g Blue Base	20 g Violet Base

Our mission at Aveda is to care for the world we live in, from the products we make to the ways in which we give back to society. At Aveda, we strive to set an example for environmental leadership and responsibility, not just in the world of beauty, but around the world.

Questions?

Call the Aveda Technical Hotline at 1.888.HAIR.SØS (424.7707) USA.