

Dispenser Calibration Instructions

for the Shercolor Web Application with

COROB Tinters

This document is written to provide information necessary to perform Tinter calibration for Shercolor Web systems and Custom PCs configured with Oracle Operating System.

Revisions

Date	Revision Number	Reason for Revision	Modified By
20180315	1	Removed instructions for Dispense test via Corob TECH	Crz687
20180329	2	Added warning for Dispenser Wizard on page 7. Added tolerance for dispense test of .20 +/- on page 21	Crz687
20180730	3	Changed page 11 number 7 to: Check "Incremental weighing mode" You will not need to zero out or tare the scale after each dispense. This option provides for greater accuracy.	Crz687
20180730	4	Added Upload Calibration to final steps on page 21	Crz687
20190225	5	Updated WPG values on page 14 and 19 for 2019	Crz687
20190311	6	Updated Confirm Successful Calibration page 22 from .2 to 2%	Crz687
20190827	7	Updated tare settings to be consistent on pages 12 & 13	Crz687
20200824	8	Updated WPG on page 14	Crz687
20211011	9	Updated WPG on page 14	Crz687
20220310	10	Updated WPG on page 14	Crz687

TABLE OF CONTENTS

Preparation Prior to performing the calibration 4

Calibration Steps..... 6

 WPG setup per colorant..... 9

Configure the scale 10

Begin Calibration 13

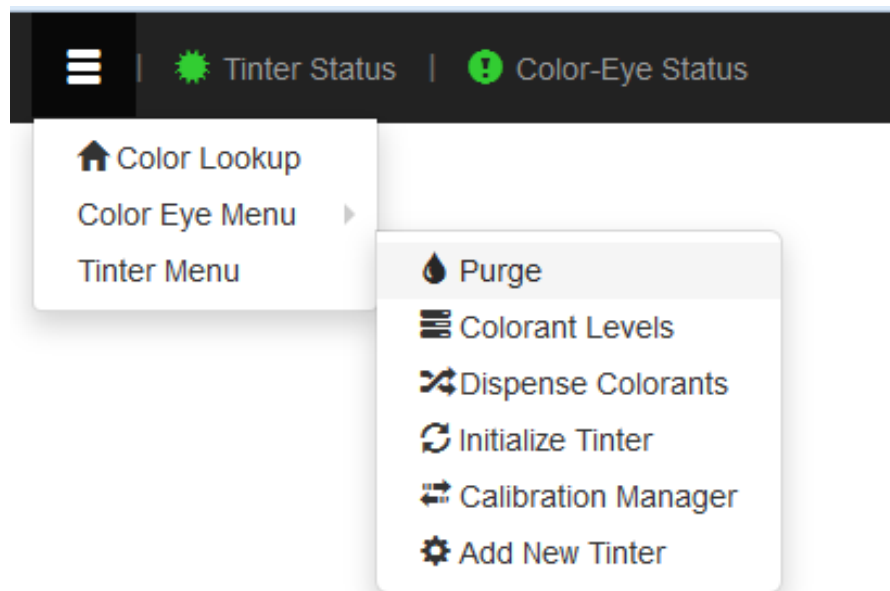
WPG Charts..... 14

Confirm Successful Calibration 18

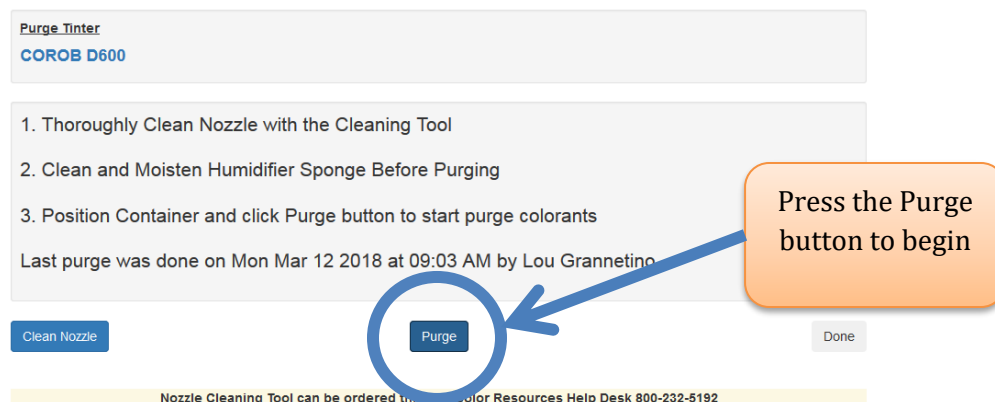
PREPARATION PRIOR TO PERFORMING THE CALIBRATION

In preparation to perform the tinter calibration:

1. Perform a **Purge** function. This can be done by selecting the Drop-down menu in the upper left corner of the Shercolor screen
 - a. Select Tinter Menu
 - b. Select Purge



2. Follow the on-screen instructions displayed below.



Purge All In Progress

Please wait while the tinter performs Purge All Colorants...

Purge Tinter

COROB D600

1. Thoroughly Clean Nozzle with the Cleaning Tool
2. Clean and Moisten Humidifier Sponge Before Purging
3. Position Container and click Purge button to start purge colorants

Last purge was done on Mon Mar 12 2018 at 12:58 PM by Lou Grannetino

Purge Successful

Clean Nozzle

Purge

Done

Nozzle Cleaning Tool can be ordered through Color Resources Help Desk 800-232-5192

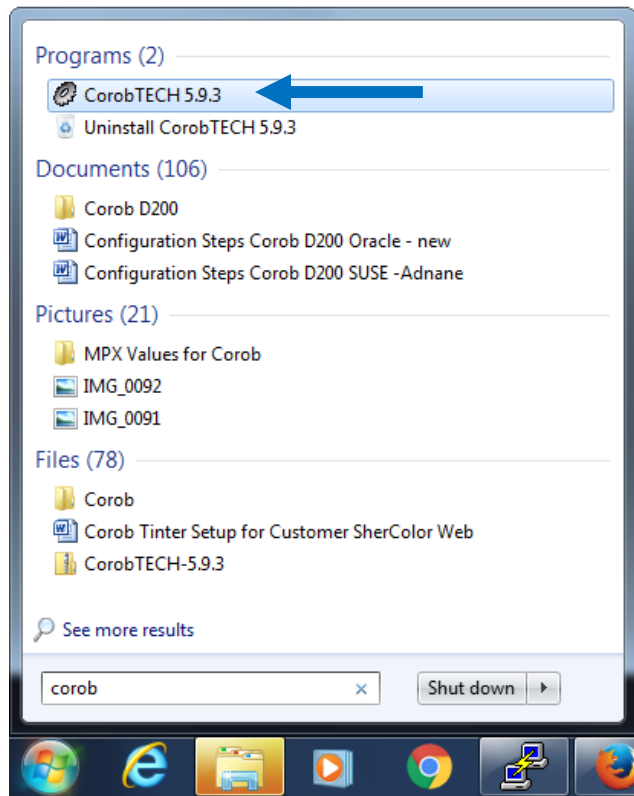
Press <Done>
to complete the
purge process

2. Scale requirements
 - a. The scale needs to weigh in grams
 - b. The scale needs to display 6 characters, two after the decimal point ex. 1234.56g.

[Back to Top](#)

CALIBRATION STEPS

1. Access the Corob calibration program found in the Corob TECH 5.9.3 program. From the Windows computer <Start> button, type Corob in the search window. Corob TECH 5.9.3 will be displayed. The program was loaded to the Windows computer at the time the Shercolor Web application was configured.

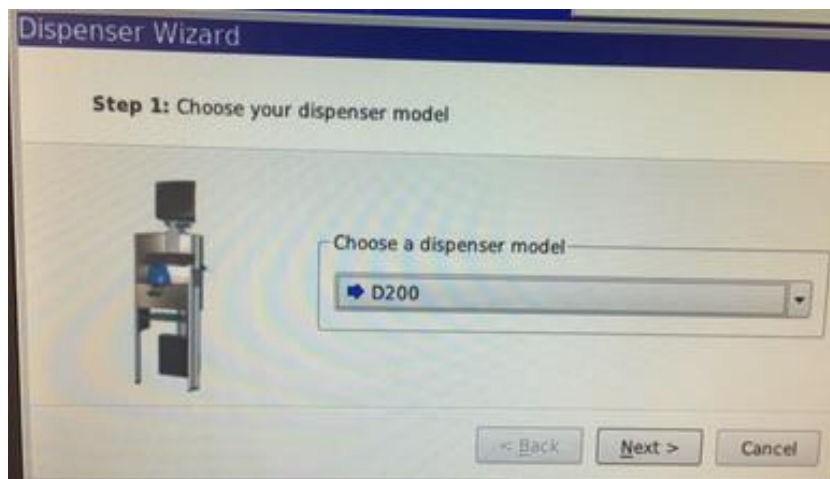


2. The following window will display while the program is being accessed.

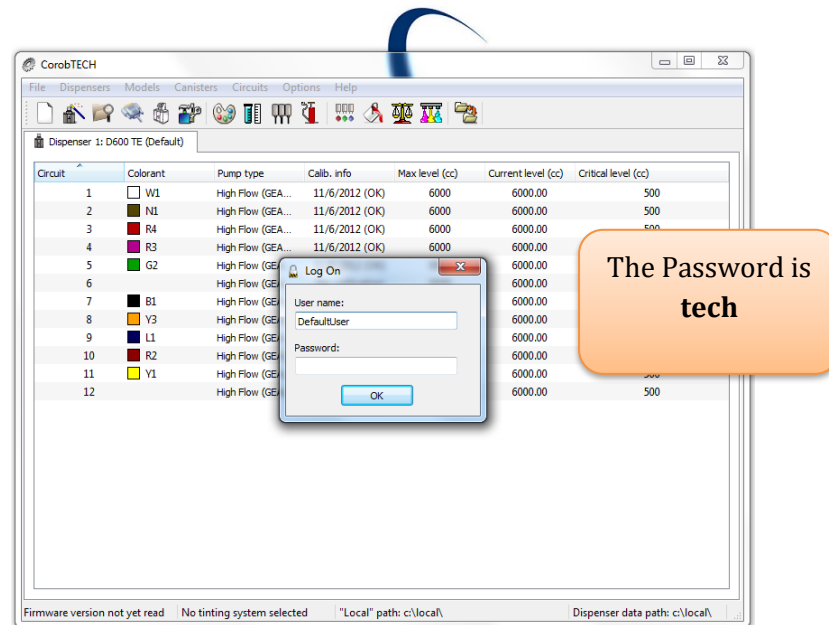


Warning:

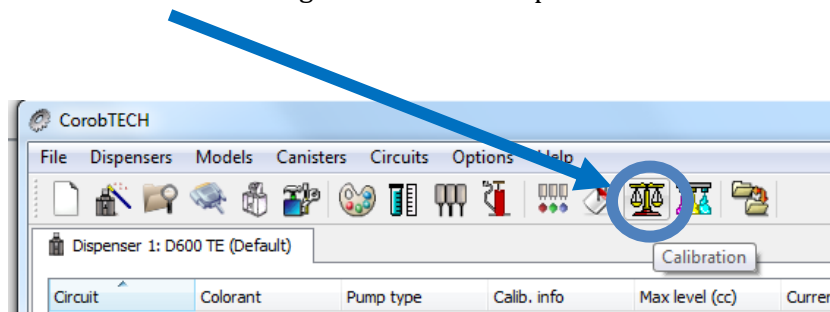
At step 1 and 2, if you encounter the "**Dispenser Wizard**": **stop and exit** the program. Do not proceed. This will create a new template and wipe out the data/configuration specific to the machine you are using. Close the CorobTech program and check to be sure the tinter is communicating with the software. If the "**Dispense Wizard**" comes up again, **stop and call for assistance**.



3. Once the Corob TECH window opens, type **tech** in the password field and then press <OK>



4. Select the **Scale** ICON to begin the calibration process



5. The next screen displays where the calibration will take place.

The screenshot shows the calibration software interface. A blue bracket points to the 'Colorant' and 'Pump type' columns of the main table, with the annotation 'Colorants and tank positions to be calibrated'. A blue arrow points to the 'Calib. info' column, with the annotation 'Date of last calibration'. A blue circle highlights the 'Specific weight (gr/l)' section, with the annotation 'Specific Weight value for colorant. Each colorant will have a different **real value** number. The number value will change based on the color selected above. See page 14.' The 'Use real value' radio button is selected, and the value '1156' is entered in the text box. The 'Calibration information' panel on the right shows 'Calibration OK (October 17/16)' and a 'Details...' button. The 'Procedure completed!' message is at the bottom, with buttons for 'Calibration points...', 'Reports...', and 'Exit'.

Circuit	Colorant	Pump type	Calib. info
1	R4	Standard (BE...	No calibration
2	R3	Standard (BE...	No calibration
3	Y1	Standard (BE...	No calibration
4		Standard (BE...	No calibration
5	N1	Standard (BE...	No calibration
6	G2	Standard (BE...	No calibration
7	L1	Standard (BE...	10/17/16 (OK)
8	R2	Standard (BE...	No calibration
9	W1	Standard (BE...	No calibration
10		Standard (BE...	
11		Standard (BE...	

Specific weight (gr/l)

☐ Use standard value 0

☒ Use real value: 1156

Steps	Volume (cc)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)
500	0.374	0.430						
600	0.504	0.580						
800	0.748	0.860						
1000	1.000	1.150	150	0 (0.433%)...	782	212		
1200	1.270	1.460	150	0 (nan%) n...	782	212		
2000	2.278	2.620	998	0 (0.000%)...	217	1505		
8000	29.878	34.360	998	0 (0.000%)...	217	1505		

Procedure completed!

Calibration points... Reports... Exit

[Back to Top](#)

CONFIGURE THE SCALE

6. At the Calibration screen, select <Options>. These steps will select the scale to be used

Calibration information

Calibration OK (October 17/16)

[Details...](#)

Options... **Start** **Stop**

Weigh now! **Repeat** **Pause**

Specific weight (gr/l)

☐ Use standard value 0

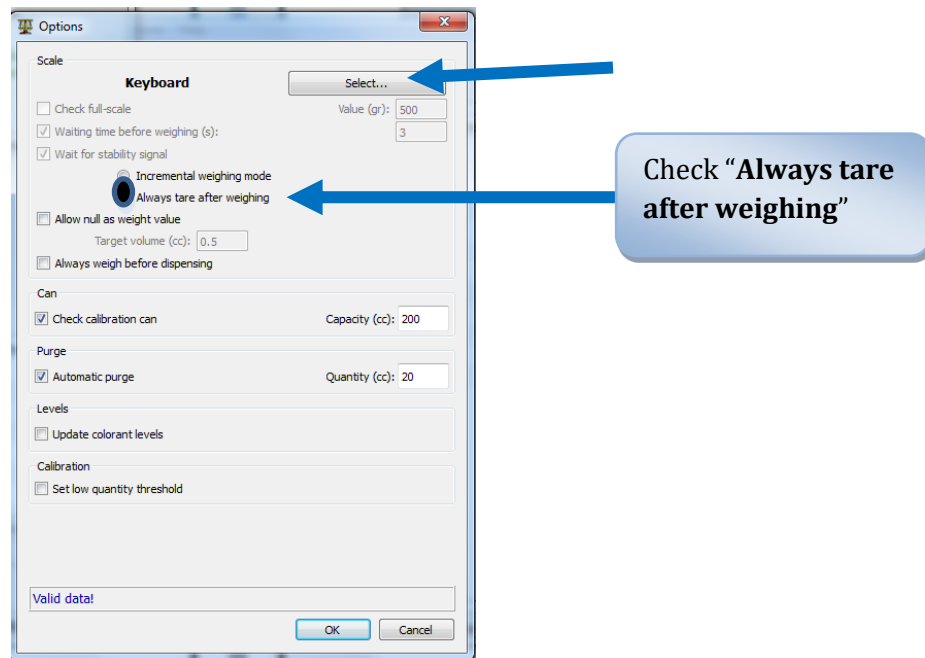
☒ Use real value:

Steps	Volume (cc)	Volume (cc)	Weight (gr)	Speed	Repetitions	d. dev. (cc)	Steps/cc	Offset	Repeat
500	0.374	0.430	150	0	(nan%) n...	782	212	<input type="checkbox"/>	
600	0.504	0.580	150	0	(1.754%)...	782	212	<input type="checkbox"/>	
800	0.748	0.860	150	0	(nan%) n...	782	212	<input type="checkbox"/>	
1000	1.000	1.150	150	0	(0.433%)...	782	212	<input type="checkbox"/>	
1200	1.270	1.460	150	0	(nan%) n...	782	212	<input type="checkbox"/>	
2000	2.278	2.620	998	0	(0.000%)...	217	1505	<input type="checkbox"/>	
8000	29.878	34.360	998	0	(0.000%)...	217	1505	<input type="checkbox"/>	

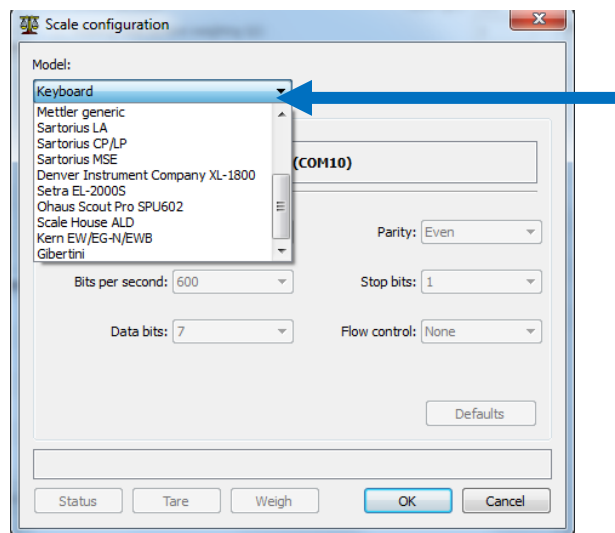
Procedure completed!

[Calibration points...](#) [Reports...](#) [Exit](#)

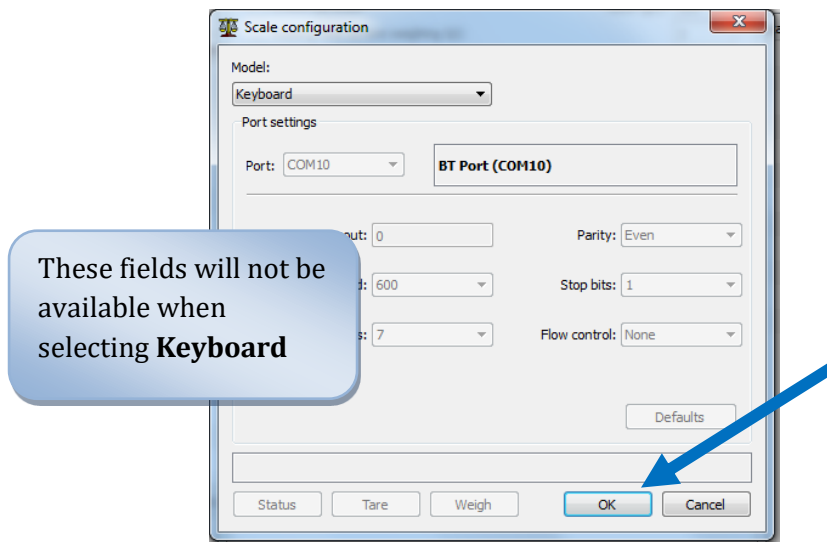
7. A pop-up window will display. Press the <Select> button to view options for the Tinter manufacturer's recommended weight scales.



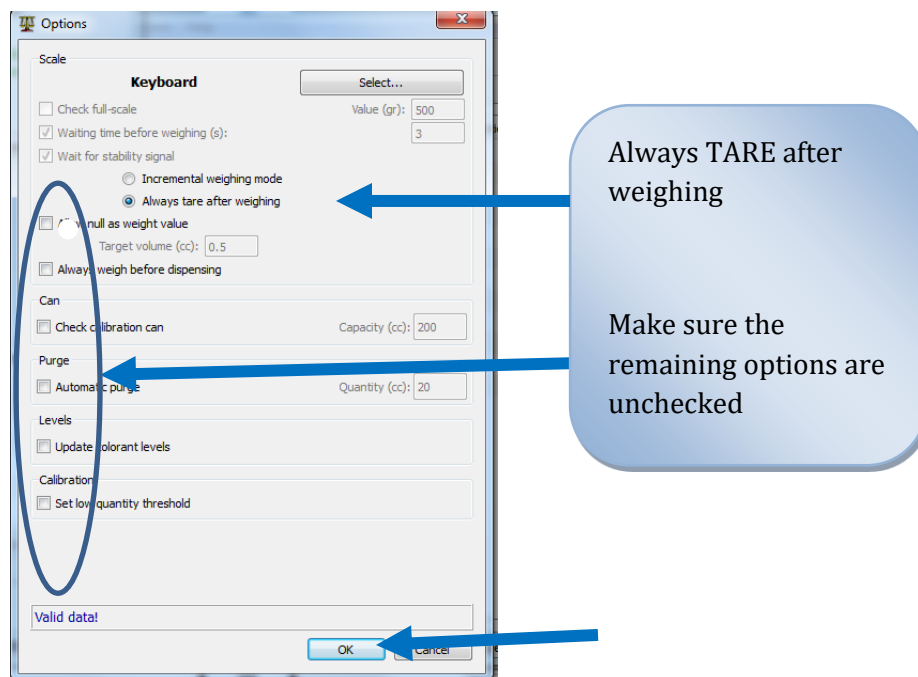
8. Select **Keyboard** from the list of available options



When selecting **Keyboard**, it will not be necessary to modify the Port Settings, therefore the associated fields will not be available.



9. Press <OK> to complete the model and port settings selection.



10. Press <OK> to complete the Scale Selection Options screen.

[Back to Top](#)

BEGIN CALIBRATION

11. To begin calibrating colors, place an empty cup on the scale and place both the cup and scale under the dispensing nozzle.
 - a. To select the color to calibrate, click on the line of the specific color.
 - b. Update the "Use real value" field with the Specific Weight value column in the CCE or BAC colorant chart below. Once the real value has been updated,
 - c. press <Start>.

Calibration information

Calibration OK
(October 17/16)

[Details...](#)

Options... **Start** **Stop**

Weigh now! **Repeat** **Pause**

Specific weight (gr/l)

☐ Use standard value 0

☒ Use real value: 1156

Steps	Volume (cc)	Volume (cc)	Weight (gr)	Speed	Repetitions	d. dev. (cc)	Steps/cc	Offset	Repeat
500	0.374	0.430	150	0	(nan%) n...	782	212	<input type="checkbox"/>	
600	0.504	0.580	150	0	(1.754%)...	782	212	<input type="checkbox"/>	
800	0.748	0.860	150	0	(nan%) n...	782	212	<input type="checkbox"/>	
1000	1.000	1.150	150	0	(6.000%)...	782	212	<input type="checkbox"/>	
1200	1.270	1.460	150	0		782	212	<input type="checkbox"/>	
2000	2.278	2.620	998	0		217	1505	<input type="checkbox"/>	
8000	29.878	34.360	998	0		217	1505	<input type="checkbox"/>	

Procedure completed!

[Calibration points...](#) [Reports...](#) [Exit](#)

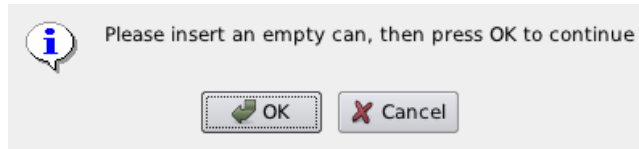
WPG CHARTS

CCE 2022				
Code	COLOR DESCRIPTION	WPG	Target	Specific Weight
B1	CCE BLACK	10.90	38.63	1306
G2	CCE NEW GREEN	11.40	40.40	1366
L1	CCE BLUE	9.65	34.20	1156
N1	CCE RAW UMBER	11.60	41.11	1390
R2	CCE MAROON	16.50	58.47	1977
R3	CCE MAGENTA	10.15	35.97	1216
R4	CCE NC RED	12.25	43.41	1468
W1	CCE WHITE	17.30	61.31	2073
Y1	CCE YELLOW	9.38	33.24	1124
Y3	CCE DEEP GOLD	15.20	53.86	1822

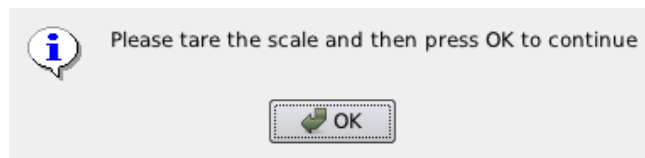
BACC 2022				
Code	COLOR DESCRIPTION	WPG	Target	Specific Weight
B1	BLACK	11.47	40.65	1375
L1	BLUE	11.80	41.82	1414
N1	RAW UMBER	12.05	42.70	1444
R2	RED OXIDE	17.50	62.01	2097
R3	MAGENTA	10.55	37.39	1264
W1	WHITE	17.68	62.65	2119
Y1	YELLOW	10.70	37.92	1282
R4	RED	11.15	39.51	1336
G2	GREEN	11.25	39.87	1348
Y3	YOX	15.65	55.46	1876

[*Back to Calibration setup](#)

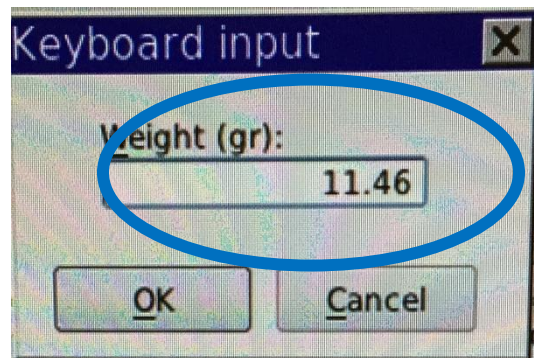
12. The program will instruct you to insert an empty can, then press <OK>



13. The on-screen prompt will instruct you to please tare (zero out or reset) the scale and then press <OK> to continue.



14. Once the two previous steps have been done, the tinter will dispense the first quantity of colorant into the cup. The on-screen prompt will provide a screen to enter the numeric value that is displayed on the scale. Enter the value and then press <OK>



See below for the photo of the scale where numerical value was obtained.



15. Follow the on-screen instructions until all steps are completed for this specific colorant. Completion of the color calibration will be displayed in the upper right corner of the display.

The screenshot shows the Corob Dispenser Calibration software interface. At the top, there is a table with columns: Circuit, Colorant, Pump type, and Calib. info. The table lists 11 colorants. The 7th row, 'L1', is highlighted in blue and shows '10/17/16 (OK)' in the Calib. info column. A blue arrow points from this row to a 'Calibration information' box in the top right corner, which displays 'Calibration OK (October 17/16)' and a 'Details...' button. Below the table, there is a 'Specific weight (gr/l)' section with two radio buttons: 'Use standard value 0' and 'Use real value: 1150'. To the right of this are buttons for 'Options...', 'Start', 'Stop', 'Weigh now!', 'Repeat', and 'Pause'. Below these is a large table with columns: Steps, volume (cc), weight (gr), Speed, Repetitions, d. dev. (cc), Steps/cc, Offset, and Repeat. The table contains data for various steps (500, 600, 800, 1000, 1200, 2000, 8000). At the bottom, there is a 'Procedure completed!' message and two buttons: 'Calibration points...' and 'Reports...'. A blue arrow points from the 'Exit' button at the bottom right.

Circuit	Colorant	Pump type	Calib. info
1	R4	Standard (BE...	No calibration
2	R3	Standard (BE...	No calibration
3	Y1	Standard (BE...	No calibration
4		Standard (BE...	No calibration
5	N1	Standard (BE...	No calibration
6	G2	Standard (BE...	No calibration
7	L1	Standard (BE...	10/17/16 (OK)
8	R2	Standard (BE...	No calibration
9	W1	Standard (BE...	No calibration
10	Y3	Standard (BE...	No calibration
11		Standard (BE...	No calibration

Specific weight (gr/l)
☐ Use standard value 0
☒ Use real value: 1150

Options... Start Stop
Weigh now! Repeat Pause

Steps	volume (cc)	weight (gr)	Speed	Repetitions	d. dev. (cc)	Steps/cc	Offset	Repeat
500	0.374	0.430	150	0	(nan%) n...	782	212	<input type="checkbox"/>
600	0.504	0.580	150	0	(1.754%) n...	782	212	<input type="checkbox"/>
800	0.748	0.860	150	0	(nan%) n...	782	212	<input type="checkbox"/>
1000	1.000	1.150	150	0	(0.433%) n...	782	212	<input type="checkbox"/>
1200	1.270	1.460	150	0	(nan%) n...	782	212	<input type="checkbox"/>
2000	2.278	2.620	998	0	(0.000%) n...	217	1505	<input type="checkbox"/>
8000	29.878	34.360	998	0	(0.000%) n...	217	1505	<input type="checkbox"/>

Procedure completed!

Calibration points... Reports... Exit

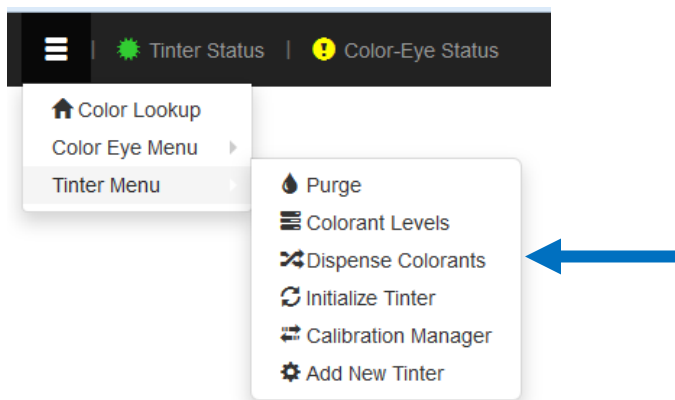
This completes the process to calibrate one colorant. **Repeat steps 11 through 15 of the process for each colorant.**

16. Once all colorants have been calibrated, press <Exit> to close the calibration window.

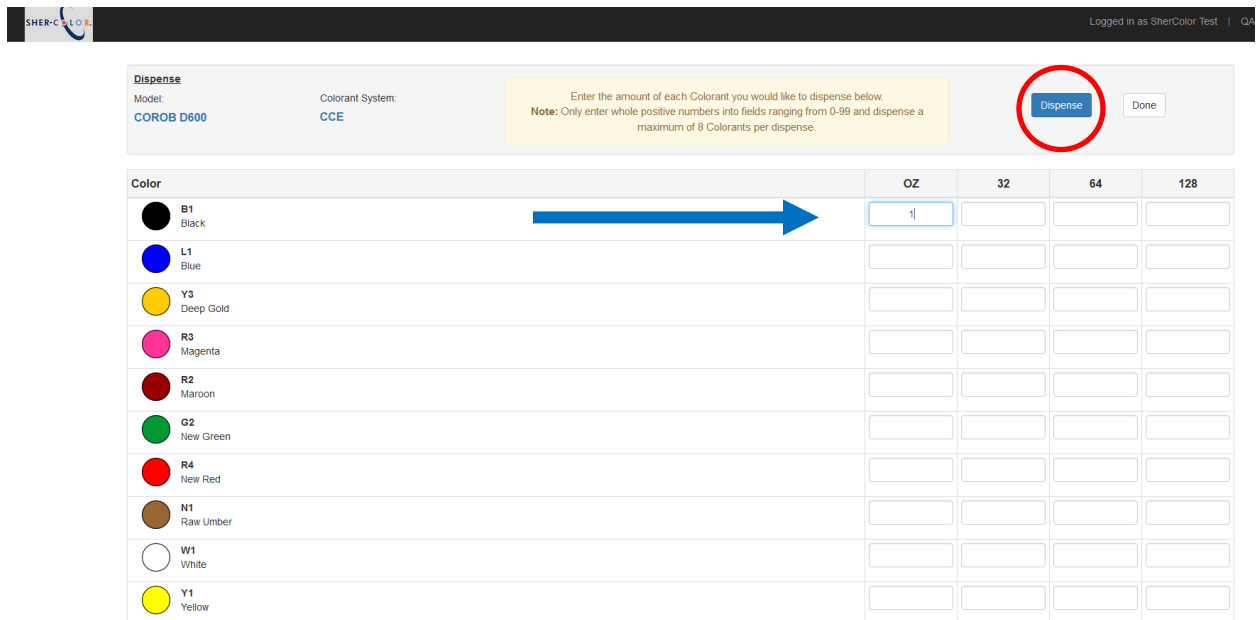
[Back to Top](#)

CONFIRM SUCCESSFUL CALIBRATION

17. To ensure proper calibration, dispense one ounce of each colorant and record the result displayed on the scale in the chart below.
18. From the Main Menu of the Shercolor Web screen,
 - a. Select Tinter Menu
 - b. Select Dispense Colorants



19. The following screen will be displayed. Select a color you want to dispense and type a 1 in the oz field for the color. Then press <Dispense>



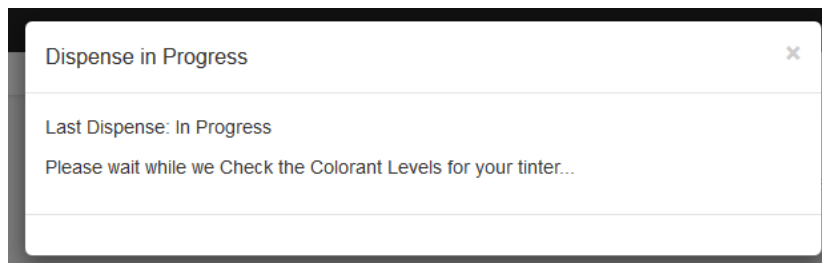
Dispense
Model: COROB D600
Colorant System: CCE

Enter the amount of each Colorant you would like to dispense below.
Note: Only enter whole positive numbers into fields ranging from 0-99 and dispense a maximum of 8 Colorants per dispense.

Dispense Done

Color	OZ	32	64	128
B1 Black	1			
L1 Blue				
Y3 Deep Gold				
R3 Magenta				
R2 Maroon				
G2 New Green				
R4 New Red				
N1 Raw Umber				
W1 White				
Y1 Yellow				

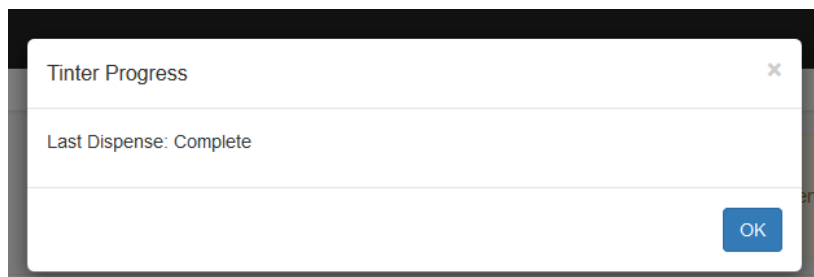
The following Pop-up windows will display



Dispense in Progress

Last Dispense: In Progress

Please wait while we Check the Colorant Levels for your tint...



Tinter Progress

Last Dispense: Complete

OK

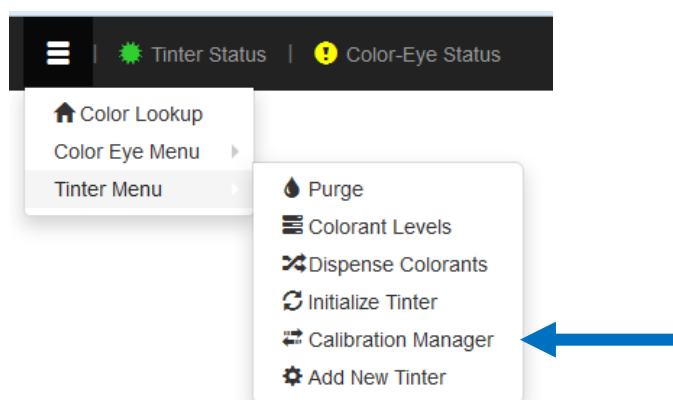
20. Press <OK> to continue to the next color
21. Enter the numeric value displayed on the scale in the "1 oz Actual from Shercolor Web" column of the table below

[Target values can be found in the tables on page 14](#)

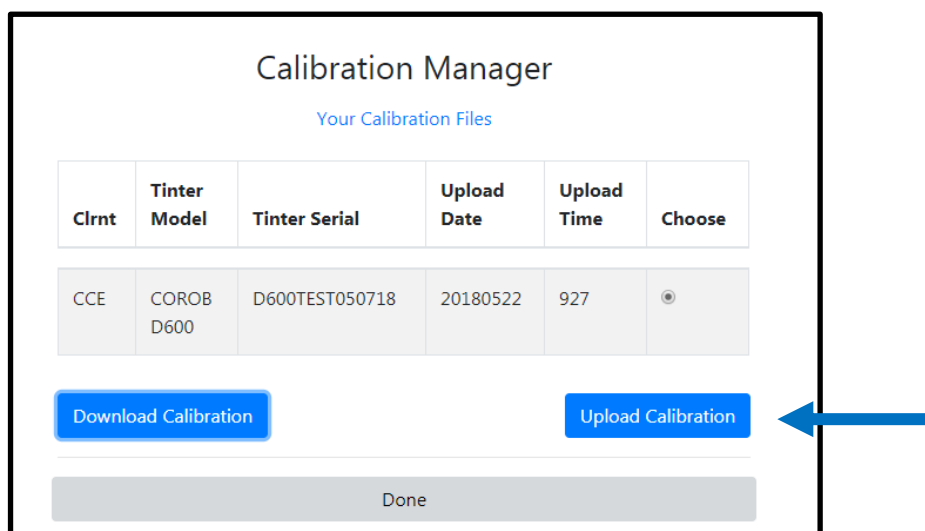
Colorant	1 oz Actual from Shercolor Web	CCE Target in grams	BAC Target in grams
B1 – Black		38.83	40.65
G2 – New Green		40.40	40.04
L1 – Blue		34.20	41.82
N1 – Raw Umber		41.11	42.70
R2 – Maroon		58.47	62.01
R3 – Magenta		35.97	37.39
R4 – New Red		43.41	39.51
W1 – White		61.31	62.65
Y1 – Yellow		33.24	37.92
Y3 – Deep Gold		53.86	55.46

- If the scale matches the one-ounce target value found on [page 14](#) by +/- 2%, then the calibration was successful.
- If the scale does not match the one-ounce target, repeat the calibration steps for the color that did not weigh correctly on the scale. After recalibrating the color in question, dispense one ounce and weigh it on a scale.

Upon successful calibration and testing of all colorants, upload the calibration to the Sher-Color Web system.



22. From the Main Menu of the Shercolor Web screen,
 - c. Select Tinter Menu
 - d. Select Calibration Manager



23. Click the **Upload Calibration** button to send the calibration files to Sherwin Williams.

This completes the tinter calibration process for Shercolor Web systems. Once calibration is complete, it is automatically loaded into the Corob dispenser software. No initialization or reboot of tinter or computer is necessary.

[Back to Top](#)