1. **Operational Steps**

## Paneling/Drawdown

1. Place the substrate (paper, card or film) on a smooth surface like clip board in the upright position.
2. Put a drop of material on the substrate with the help of spatula. Ensure the spatula to be properly cleaned before use.
3. Use an appropriate coating medium (scrapper, or a coating rod of appropriate number) to draw the material downwards towards the bottom of the substrate. This will result in a uniform coating of paste on the substrate.
4. Let the coated layer to dry. Use dryer or oven, if necessary, for this purpose.
5. If two pastes are to be compared, put drops of both of them on the substrate a small distance apart and simultaneously draw both of them together with the coating medium.

## Color measurement (CR-10)

1. Turn the instrument on.
2. Chose the appropriate color system (L a b or L c h)
3. To measure the L a b values of a sample, press target button the instrument panel.
4. Place the panel or sample to be measured on a smooth surface.
5. Place the instrument on the target in such a way that its lens is completely covered by the sample to be measured and is pressed against it so that non light can escape.
6. Press the measure button on the side of the instrument to take a reading and note the L, a and b values which appear on the display.
7. Repeat the steps 3 to 6 to measure the l a b values of another sample.
8. To measure color difference between two samples, take the l a b values of the target sample by repeating steps 3-6. Now, place the instrument on the trial sample/batch sample in a way described in point 4 and 5 and press the measure button again
9. The difference is shown in terms of difference of L a and b values. There is an additional parameter dE which includes the effect of all of these three parameters. The value of this parameter should be less than 1.5 for the color samples to be matched.
10. Report the L a b values and/or the differences as required.
11. Turn the instrument off. And put it back to its original place.
12. **Precautions**

Calibrate the equipments before use.

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