



## Customer Success Story

# Dowell Deploys Network Color Matching System for Leather Finishing

**Industry:** Leather chemicals

**Currently Using:**

- Datacolor 600 benchtop spectrophotometer
- Datacolor Match Pigment color matching software

Project Location: China

With the growth of digital technology and its many applications, thousands of computer-aided color measurement and matching systems have been put into industrial application since the 1980s. The use of computer-aided color matching systems has become widespread in leather chemicals, textiles, plastics, inks, automobiles, dyes, and pigments, among other industries.

Modern, computer-aided color matching systems integrate spectrophotometers, computers and color matching software. The system stores the pigment paste data for use in production in advance. It then uses that data to calculate the mixing ratio of the pigment paste in order to produce color just like the standard sample. By doing so, it can generate a predetermined recipe.

**Today, the leather industry is facing a widespread challenge: how to solve the metamerism issue fast when producing automobile cushion leather, sofa leather, patent leather and handbag leather.**

Dowell offers 10 product lines with hundreds of pigment paste products. It has focused on finding solutions to metamerism from the start of R&D.

When matching colors, most people will experience varying degrees of interference from metamerism due to individual differences in color perception and the limitations of using light sources in color matching. Therefore, it is particularly important to use a professional color matching device to improve the accuracy of color matching.

**Datacolor's benchtop spectrophotometer and color matching software, Datacolor Match Pigment, allow you to predict recipes and modify colors. They are perfect choices for color experts to formulate colors and control color quality.**

With Datacolor's unique color compensation and metamerism features, engineers can simulate color matching results in advance and accelerate the process of color matching.

Using a new built-in processor and data storage, the **Datacolor 800 family benchtop spectrophotometer** provides a platform for increased efficiency and confidence in color measurement. It has the highest accuracy and best overall compatibility among Datacolor benchtop spectrophotometers.

It is a sophisticated software solution. Datacolor's unique smart color matching capabilities provide more precise recipes, which enable Dowell to respond to market trends in a timely manner, optimize color results, shorten production time and save costs.



Datacolor 800 family benchtop spectrophotometer

**Datacolor Match Pigment** is a color formulation software designed for the coatings, pigments and plastics industries. It allows you to formulate the desired colors with efficiency and confidence. The unique **SmartMatch** technology in Match Pigment reduces the need for physical matching and improves first-shot color match rates by up to 80%.

**SmartMatch** identifies systematic discrepancies between recipes that are calculated theoretically and actual dyed recipes and uses algorithms to improve recipe prediction or corrections.

Then, when a new recipe is formulated, the program retrieves this information and modifies the concentration of dyestuffs based on the **SmartMatch** populations, resulting in a closer prediction than conventional prediction methods.



Datacolor Match Pigment

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**Datacolor**, a professional color management partner, helped Dowell deploy a superior web-based color matching system server and develop a color matching system dedicated to leather finishing. The company can share a database of more than 40 pigment pastes remotely to quickly solve the metamerism issue. Moreover, with the establishment of a database containing more than 400 standard color cards, the accuracy of first-shot recipes has been improved significantly.



With the high color matching accuracy provided by Datacolor, Dowell can select the optimal pigment paste recipe, improve the covering power of the coating, and reduce costs of pigment paste. As a result, color matching can be done faster and more accurately with first-shot accuracy of 85%, which can lead to increased productivity and lower labor cost.

**Datacolor** has provided excellent products and services for over 50 years. As a professional provider in color management solutions, we can help you get the right color with efficiency and confidence, while saving time and money.

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