If your collision repair shop is typical of most, you’ve probably run into the situation more than once where the customer complains that the color of their bumper doesn’t match the rest of the vehicle—or you have to explain why blending may be required in order to create an invisible repair that’ll match even better than the factory original.

Trying to conjure up a simple explanation to the customer’s satisfaction isn’t an easy proposition. To overcome the customer’s objections, it’s essential to have a good grasp of the underlying causes of why OEM bumpers often don’t match the rest of the vehicle. Basically, there are four common reasons for an OEM bumper mismatch.

1. A color can vary depending on the substrate on which it is painted. For example, the evaporation rates for solvent vary on metal or plastic. A longer rate gives a flake pigment additional time to “float” and can darken the “face” of the color.

2. The body was painted on a production line at the factory, while other parts, such as the bumper and trim, were painted at another location using a different application method.

3. Slight adjustments can be made during application creating a lighter or darker color, or causing the metallics or mica elements to lay down differently.

4. Light reflects differently on curved and flat surfaces causing the appearance of a color shift.

Becoming familiar with these reasons can go a long way in resolving bumper color issues. Even better, PPG has created “Facts on Bumper Color”, a very informative campaign to help educate customers on the four basic causes of bumper mismatch.

Available through your local PPG distributor, the educational materials are available in three formats: 18”x24” Poster, part number WAL 42; 9”x12” Counter Display, part number OTH 42; 2-sided Pamphlet, part number PAM 42.

PPG’s “Facts on Bumper Color” campaign is proving to be a very effective customer satisfaction tool in shops where it’s being utilized. “These materials are a great thing to have,” relays William Parkins, owner of Metro Auto Rebuild of Seattle, WA. “By simply showing our customers the facts about OEM mismatches, it saves my employees the time it takes to explain the problem. An estimator can point out to the customer why the bumper color is like that to begin with, but these materials offer documentation to back it up.”

The second major cause lies in the thermal conductivity of the substrates. If you have sprayed solvent onto a metal panel on a warm day, you may have noticed how the panel cools down significantly as the solvent evaporates. The solvent is pulling the heat out of the panel as it evaporates and as a result, speeds up the drying process. This doesn’t occur as much with plastic since it is a good insulator. As a result, the same paint may evaporate at a different rate on plastic than metal. This increase in the evaporation time gives metallic flakes longer to “float” in the film which can darken the “face” slightly. This can be compensated for using the techniques discussed in an earlier Repair Reporter article entitled “Vanishing Act” (Vol. 49, No. 1). To view past issues of the Repair Reporter, please visit www.ppgfinish.com and click on Refinish News.