

TruBond

Bonded Metallic Powder Coatings

With powder coatings you can achieve a variety of appearances, including appearances that contain metallic pigments. When you incorporate metallic, you must keep in mind the application process used as well as the atmospheric conditions the finished product may be subjected to. There are three basic ways to gain a metallic appearance with powder coatings:

Dry Blend: This process uses a base powder coating and the metallic is blended into the base.

Problem: If not bonded together, the metallic and the base coating will spray differently causing a separation which will cause a color shift. Other issues include the possibility of free metallic having a tendency to build up on the gun tip, causing spitting of the coating.

Extruded: Typically using an encapsulated metallic coating and the metallic is blended into the base.

Problem: The inability to achieve certain looks and appearances. The extrusion process can be harsh on the metallic flake(s) as well limits the “pop” desired by powder containing metallic.

Bonded: Metallic flake(s) are sent through a process where friction and blending fuse the metallic to the powder particles, creating a bond.

Benefits: Improved application, broader range of appearances, and in some cases, can be reclaimed successfully.

Contact TCI for more information.
300 Martin Marietta Drive,
Americus, GA 31719
Phone: 800.533.9067
Fax: 800.265.0404
www.tcipowder.com



TruBond Lite

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TCI has also created a less costly way to bond the metallic pigment to the resin in a unique process called TruBondLite. This can be used when you are looking for improved application and improved consistency in film build but when a color shift in reclamation is not as critical or in non-reclaim applications. Also, there may be limitations in brilliance of appearance and outdoor weather-ability when considering TruBondLite.

How is TCI's TruBond process different from others?

- ▶ TruBond uses a monitoring process to assure consistency in the bond maintaining batch to batch consistency
- ▶ TruBond creates an extremely high percentage of bond, improving your application and performance over other bonding processes

Ideal Applications

- ▶ Fitness equipment
- ▶ Outdoor and indoor furniture
- ▶ Wheels
- ▶ Lighting fixtures
- ▶ Display racks
- ▶ Car components
- ▶ Hospital furniture
- ▶ Shelving units