



# DM

## COATING SYSTEM

We're excited to introduce you to our **Difference Maker Coating System**. While many trailer manufacturers choose powder coat and finish processes based solely on their material and operating costs, we designed this system to produce extraordinary trailer finishes. The mantra was simple: Improve *everything*. Sacrifice *nothing*.

These are the things: Adhesion. Corrosion resistance. Chip and abrasion resistance. Gloss and color retention. Curb appeal.

It works. Here's how we do it:

### Step 1

Each trailer frame is **blasted with steel shot** to remove mil-scale and add an anchor profile for primer to adhere to.

### Step 2

Then we wash them with a **5 stage wash** process to clean the steel, add corrosion resistance, and balance pH.

- 1 - Alkaline wash removes blast dust and oils.
- 2 - High pressure rinse.
- 3 - Phosphate salt rinse inhibits rust and helps with paint adhesion.
- 4 - High pressure rinse.
- 5 - Final sealing rinse is applied.

All wash water is reverse osmosis (RO) purified to ensure consistency.

### Step 3

Washed frames are promptly **force dried** as they travel through our dry off oven at 300 degrees. This prevents flash rusting and ensures that frames are primer ready.

### Step 4

**Ultra-corrosion resistant Onecure Zinc Epoxy Primer Powder Coating** is electrostatically applied to the entire trailer frame.

### Step 5

**Smooth, high gloss, Onecure technology top coat** is electrostatically applied to the entire trailer frame.

### Step 6

The top coat is cured as the frame travels through our 165' **final-cure oven** at 450 degrees. All steel surpasses 425 degrees to ensure complete curing of primer and top-coat.

## Differentiators

// **Pretreatment.** Some powder coaters only blast. Some only wash. Some do a little of each. Every trailer that we powder coat is thoroughly blasted, washed clean, and chemically pretreated before powder application to ensure optimal surfaces for powder adhesion and corrosion resistance.

// **Powder.** All powders are not created equally. We use Sherwin William's most advanced ultra-durable primer and top coat.

// **Hardware.** Our powder line is highly engineered and 2400' long with plenty of breathing room for thorough processing. Trailers flow through at a steady pace with no pushing or pulling required. It includes a number of pits and platforms throughout to enable operators to access trailers, over and under, comfortably and with ease which results in excellent coverage and consistency.

// **Purity.** We use an extensive system of filters, separators, and refrigerated and dessicant air dryers to ensure that the compressed air we use for powder application is extremely pure, dry, and uncontaminated.

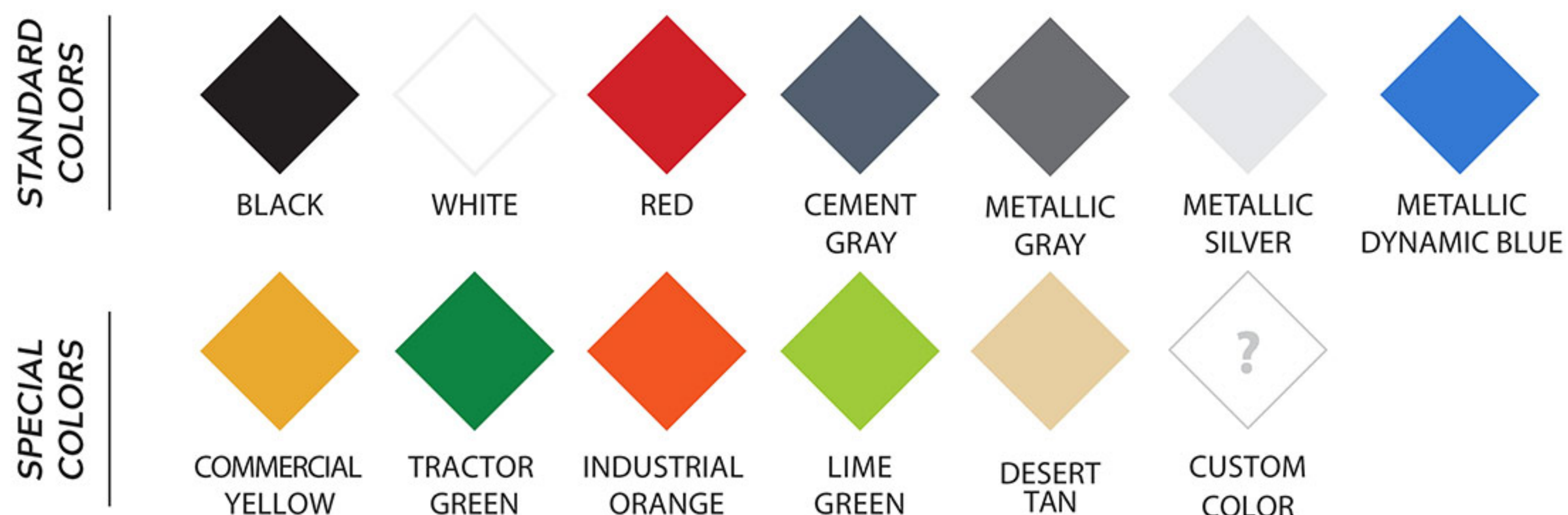
// **Control.** All powder is applied in an environmentally controlled room for optimal application consistency. 60-80 degrees F.

// **Ovens.** They're convection ovens with several thousand points of air flow, electronically monitored and balanced, and have 18 million BTU's of natural gas powered heat available to ensure consistent, complete powder curing.

// **Process.** We audit the entire process, a multi-point inspection, every single day of operation to ensure that every machine, step, and process is performing consistently and optimally. Additionally, critical performance factors are monitored hourly at each booth to maintain tight controls and standards.

We've spared no effort or expense to ensure that each Diamond C Trailer comes with an extraordinary finish that is exceptionally durable, beautiful and enduring.

*See the Difference.*



www.diamondc.com

