

ENVIROCRON® 04 Powder Coat

Polyester Acrylic Ultra Durable PCAT79120 - Ford Smoke UD

POWDER COATING

Technical Data Sheet

Highlights

PPG's Enviracryl™ and Envirocron® powder coatings are aesthetically pleasing, produce a durable uniform matte finish and can be custom formulated in a variety of surface textures.

PPG's "World Class" Ultradurable
Polyester Acrylic Powder Coatings
provide excellent durability and
performance properties. This extensive
line of Ultradurable Polyester Acrylic
Powders is manufactured to meet the
increasing quality requirements of the
automotive, industrial and commercial
markets. These sophisticated
ultradurable polyester acrylics are the
solution to your smoothness, durability
and physical property requirements. An
unsurpassed application development
program enables consistently friendly
use on a variety of substrates.

- Available in a wide range of colors and glosses
- Excellent exterior durability
- · Good chemical resistance

PRODUCT APPROVALS

Specifically formulated to meet the requirements of AAMA 2604.

TEST CONDITIONS

| Property | Test method | Value |
|-----------------------|-------------------|----------------------------|
| Substrate | | Pretreated aluminum panels |
| Recommended Thickness | ASTM D 7091 | 2.0 - 3.0 mils |
| Curing Conditions | Metal Temperature | 10 min @ 400 °F |

For chemical resistance, Pass = No color change, no loss of adhesion, no blistering or no visual appearance change.

PRODUCT PROPERTIES

| Property | Test method | Value |
|---------------------|-----------------------|--|
| Appearance | Visual Inspection | Smooth |
| Gloss 60° | ASTM D 523 | 7.0 - 13 |
| Adhesion | ASTM D 3359 | Dry: 100% (5B Pass) Wet: 100% (5B Pass) Boiling Water: 100% (5B Pass) |
| Hardness | ASTM D 3363 | 2H Pencil (Eagle) |
| Impact - Direct | ASTM D 2794 | 60 in-lbs |
| Impact - Reverse | ASTM D 2794 | 40 in-lbs |
| Conical Mandrel | ASTM D 522 | 1/4" Mandrel - No cracking |
| Chemical Resistance | | |
| Nitric Acid | 30 minute vapor test | Pass |
| Detergent Immersion | 38C for 72 hours | Pass |
| Window Cleaner | 10 drops for 24 hours | Pass |
| Mortar | 24 hour pat test | Pass |
| Muriatic Acid | 15 minute spot test | Pass |
| Salt spray | ASTM B 117 | 3000 hrs Blister rating - 8 minimum Scribe rating - 7 minimum |
| Humidity | ASTM D 4585 @ 38° C | 3000 hrs Blister rating - 8 minimum |



1 Revision date: 05/13/2025 © 2022 PPG Industries, Inc.



ENVIROCRON® 04 Powder Coat

Polyester Acrylic Ultra Durable PCAT79120 - Ford Smoke UD

POWDER COATING

Technical Data Sheet

| Property | Test method | Value |
|------------------------|-----------------|--------------------------------|
| Exterior Weathering | | |
| EMMAQUA NTW | Minimum 1450 MJ | |
| South Florida Exposure | Minimum 5 Years | |
| Chalk resistance | ASTM D 4214A | Pass - No more than 8 |
| Gloss Retention | ASTM D 523 | Pass - Minimum 30% |
| Color Retention | ASTM D 2244 | Pass - < 5.0 DE |
| Resistance to Errosion | ASTM B 244 | Pass - Less than 10% film loss |
| Specific gravity | Calculated | 1.48 ± .05 |
| Theoretical coverage | Calculated | 130 ft²/lbs at 1.0 mil |
| | | 26.6 m²/kg at 25 μm |

2 Revision date: 05/13/2025 © 2022 PPG Industries, Inc.



ENVIROCRON® 04 Powder Coat

Polyester Acrylic Ultra Durable PCAT79120 - Ford Smoke UD

POWDER COATING

Technical Data Sheet

CURING WINDOW* (object temperature)

See Cure Curve PCA-002

15-30 min @ 380 °F (193 °C) 10-20 min @ 400 °F (204 °C) 7-14 min @ 420 °F (216 °C)

*Temperature and time to be adjusted to accomplish proper curing of coating. This can be achieved using infrared, convection, or combination ovens.

STORAGE STABILITY

6 months at 77 °F maximum

Materials need to be stored in sealed plastic bags under dry and cool conditions. Do not expose to sunlight.

PPG recommends that all material be used in FIFO order (first in - first out). Materials that exceed the recommended shelf life should be tested prior to use.

SUBSTRATE PREPARATION

Surface preparation should be chosen according to the type of substrate and required performance.

The coater should test the suitability of the surface preparation before the application using appropriate test methods.

APPLICATION RECOMMENDATIONS

Electrostatic Spray

Coating can be applied with automatic and manual devices.

Substrate should be correctly cleaned before use.

Do not mix this product with other powder coatings.

Color and finish influenced by film thickness: a good control of the film thickness will help the consistency of the aspect.

HEALTH AND SAFETY

For comprehensive Health, Safety, and Environmental advice, please refer to the relevant Safety Data Sheets, and information printed on the product label.

* Statements and methods described herein are based upon the best information and practices known to PPG Industries, Inc. ("PPG"). Any statements or methods mentioned herein are general suggestions only and are not to be construed as representations or warranties as to safety, performance, or results. Since the suitability and performance of the product is highly dependent on the product user's processes, operations, and numerous other user-determined conditions, the user is solely responsible for, and assumes all responsibility, risk and liability arising from, the determination of whether the product is suitable for the user's purposes, including without limitation substrate, application process, pasteurization and/or processing, and end use. No testing, suggestions or data offered by PPG to the user shall relieve the user of this responsibility. PPG does not warrant freedom from patent infringement in the use of any formula or process set forth herein. Continuous improvements in coatings technology may cause future technical data to vary from what is in this bulletin. Contact your PPG representative for the most up to date information.

www.ppg.com & www.ppgindustrialcoatings.com & powder@ppg.com

Revision date: 05/13/2025 © 2022 PPG Industries, Inc.