

HELIOCOAT®

THERMOSET POWDER COATINGS

Some products withstand a tremendous amount of heat, day in and day out. In order to maintain the functionality of these products, their coating must be able to withstand elevated temperatures without experiencing discoloring and cracking or losing adhesion and gloss.

HELIOCOAT® is a patented thermoset powder coating solution developed to protect surfaces exposed to extremely high temperatures up to 1400°F (760°C).



OVERVIEW

How does it **work**?

HELIOCOAT® is specially formulated to protect surfaces at extremely high temperatures.

that will not crack or delaminate, and will maintain color and gloss.

The coating is formulated for excellent adherence

Main Features

- Highest heat resistance of any thermoset powder coating.
- Scratch, chip, and corrosion resistance.
- Excellent adhesion and long-term color retention.
- Flexible application for indoor or outdoor use.
- Available in four categories based on heat resistance level.

TYPICAL APPLICATIONS

Commercial & industrial

- Lighting systems
- Electrical appliances
- Home appliances
- Heaters

Transportation

- Passenger vehicles
- Rails and trains

Category 1

350°F - 450°F
(177°C - 232°C)

Category 2

500°F - 600°F
(260°C - 316°C)

Category 3

600°F - 900°F
(316°C - 482°C)

Category 4

> 900°F
(>482°C)

SUPPORT

Compliance

HELIOCOAT® can be formulated to be compliant with certain guidelines. Ask our experts which certification or accreditation is available in your area.

Care & maintenance

To ensure the life of your asset is maximized, a simple and regular maintenance program should be implemented.

Contact our experts for specific cleaning tips and advice.

Troubleshooting

We stand by our products, even when things don't go quite as planned. From cleaning and phosphating all the way to the final cured film appearance, we are here to help address your concerns with proven solutions.

Contact our experts for tailored support.

PROVEN PERFORMANCE

	CATEGORY 1 350°F - 450°F (177°C - 232°C)	CATEGORY 2 500°F - 600°F (260°C - 316°C)	CATEGORY 3 600°F - 900°F (316°C - 482°C)	CATEGORY 4 > 900°F (> 482°C)
PRIMARY CURE SCHEDULE	10' at 400°F (200°C)	10' at 400°F (200°C)	20' at 450°F (230°C)	20' at 450°F (230°C)
HARDNESS	H – 2H	H – 2H	H – 2H	H – 2H
GLOSS RANGE	3 – 90°	3 – 40°	3 – 40°	3 – 40°
IMPACT RESISTANCE	Up to 160 in.lb	Up to 160 in.lb	Up to 40 in.lb	Up to 40 in.lb
TESTING	24 hours continuous using Blue M convection oven	12 hours continuous using Thermolyne 1400 furnace oven	6 hours continuous using Thermolyne 1400 furnace oven	1 hour continuous using Thermolyne 1400 furnace oven



FORMULATING THE RIGHT MIX.

Since 1976, the Protech Group has been developing and manufacturing coatings, paints, and specialty materials. Through quality and innovation, we formulate the right mix to protect and enhance what matters most to our customers. Protech Group products are manufactured in more than 20 sites worldwide. We serve our customers in countless markets and industries, including construction, infrastructure, transportation, consumer goods, and healthcare.



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