

AIA CONTINUING EDUCATION:

# Cooling to color-changing pigments on factory coil-coated metal



## Course Description

From cooling to color changing, this course will educate the viewer about how advancements in pigment technologies can provide sustainable solutions to architects, designers and builders, while at the same time offering aesthetic opportunities that are both innovative and beautiful.

The course will talk about how the Urban Heat Island led to the introduction of infrared reflective (IR) pigments in the building industry along with a scientific overview of how those pigments work. The class will also discuss the topic of color trends and how they influence every segment of society including the metal building industry. Examples will be shown about the re-emergence of color shifting pigments and coatings in the building sector.

## Prerequisite Knowledge

Understanding of factory applied metal coatings and application processes of coil and extrusion.

## Learning Objectives

1. Understanding Urban Heat Islands and how their appearance influenced the use of IR pigments in the building industry
2. A basic overview of IR-reflective pigment origins, properties and functionality
3. An understanding of important IR measurements: TSR, TE and SRI
4. Review a case study showing how IR pigments save energy costs
5. Understanding how color trends come about and their importance in modern day global economics.
6. Show how color trends can differ globally.
7. How sustainability can be beautiful; the re-emergence of polychromatic pigments and coatings in the building industry.

## PPG Contact Information

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## Course Information

**Course Number:** CX010

**Provider Name:** PPG Industries

**Provider Number:** J573

**Expiration Date:** 09/28/2025

**Delivery Type:** Live

**Course Level:** Intermediate

**Credits:** 1 CES-LU  
1 HSW-LU

