

AIA Course: NAW-NSW-1 | 1 LU | HSW

# High Performance Stains

Specifications for Longevity and Health



Learning Objective

## 1 The Science of Stain

Analyze the chemical distinction between mineral/acrylic stains and traditional coatings to specify material selections that minimize Volatile Organic Compounds (VOCs) and protect occupant Health.

## 2 Color Theory

Evaluate color matching science and Delta E tolerances to specify precise finishes that ensure visual continuity, preventing construction errors, material rejection, and the environmental impact of rework.

## 3 Staining Requirements

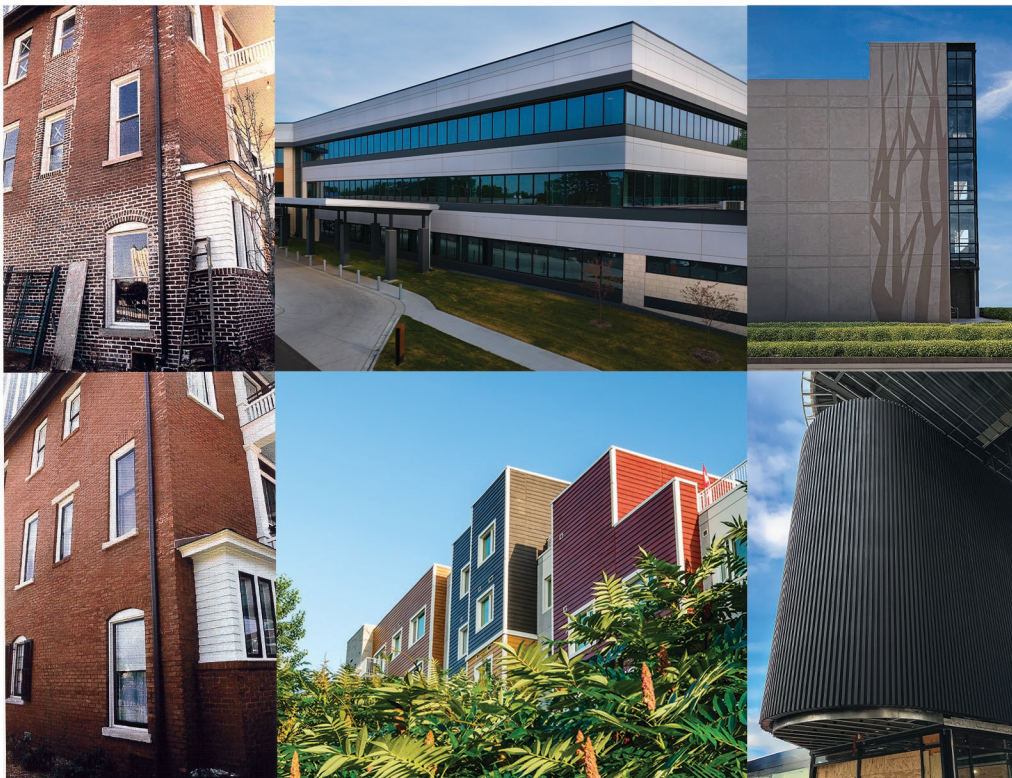
Identify critical substrate preparation protocols that ensure the structural integrity and longevity of the concrete surface, preventing premature failure and potential Safety hazards.

## 4 Color Equalization

Apply concrete correction and color equalization strategies to salvage existing concrete slabs, supporting Welfare by reducing construction waste and the environmental impact of demolition.

## 5 Stain in Action

Assess real-world case studies to identify successful application strategies and common pitfalls, ensuring that finalized projects meet the intended design goals for occupant comfort and material durability.



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