

## The Art of Concrete, Part 2

ACI Spring 2012 Convention March 18 – 21, Dallas, TX



Scott Balch was born and raised in eastern New Mexico and attended the University of New Mexico in Albuquerque where he received a BS in Civil Engineering. After working for two heavy-highway contractors in the Dallas area he started his own concrete construction business in 1990. While at the helm, North Texas Bomanite, Inc. has

established itself as one of the leading installers of decorative concrete in the region. Scott now lives in the Lake Highlands area of Dallas with his wife (Lynda). They have two adult children who also live in the DFW area. An avid upland bird hunter he also enjoys fishing, camping and most outdoor activities.





Color, Pattern and Texture: A Concrete Surface Design System

## Objectives

- 1. Learn of methods used to manipulate and effect color in concrete
- Have an understanding of techniques utilized in creating pattern in concrete surfaces.
- 3. Know of processes used to articulate various textures on concrete surfaces.
- Be able to integrate the elements of color, pattern and texture into a concrete surface design system.

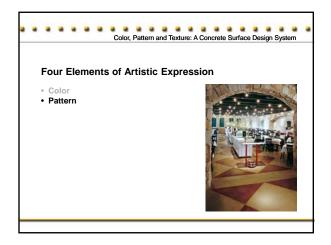
Color, Pattern and Texture: A Concrete Surface Design System

Four Elements of Artistic Expression

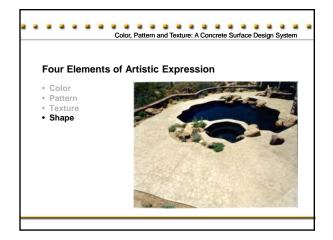
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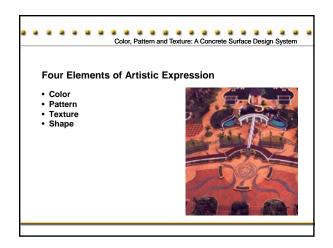
Four Elements of Artistic Expression

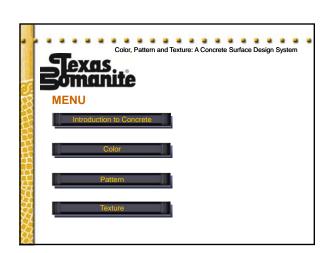
Color

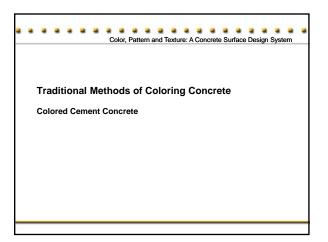


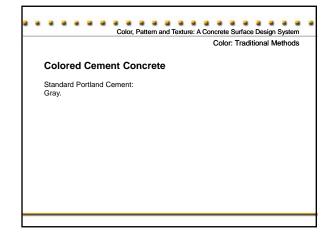


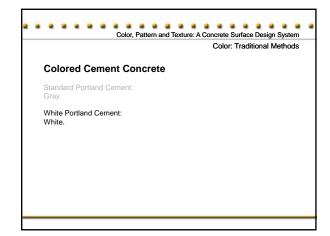












Color, Pattern and Texture: A Concrete Surface Design System
Color: Traditional Methods

Colored Cement Concrete

Standard Portland Cement:
Gray.

White Portland Cement:
White

Standard Portland Cement with a Light Tint:
Light gray or slight tan.

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Color: Traditional Methods

Colored Cement Concrete

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Gray.

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Standard Portland Cement with a Light Tint:
Light gray or slight tan.

Special Colored Cement:
Normally various shades of tan.

Color, Pattern and Texture: A Concrete Surface Design System
Color: Traditional Methods

Colored Cement Concrete

Standard Portland Cement:
Gray.

White Portland Cement:
White

Standard Portland Cement with a Light Tint:
Light gray or slight tan.

Special Colored Cement:
Normally various shades of tan.

Pigmented Cement:
Combines pigment with white portland cement to produce a variety of colors.

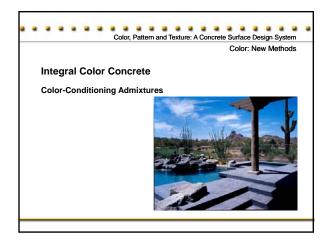
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New Methods of Coloring Concrete

Integral Color
Color-Conditioning Admixtures
Mineral Oxide Pigments
Color Hardened Concrete
Antiquing Release Agents
Chemical Stains
Reactive Stains
Penetrating Stains







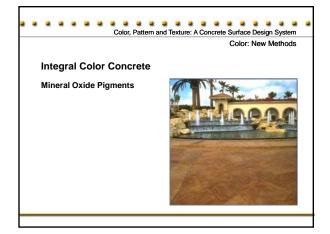








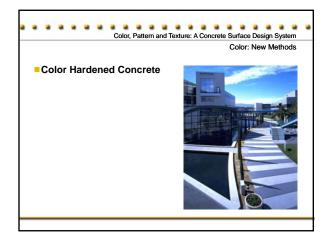






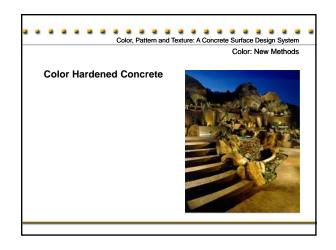












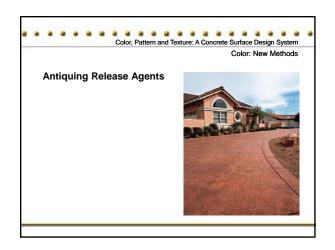


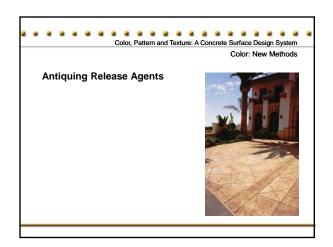




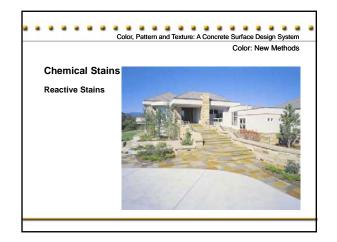




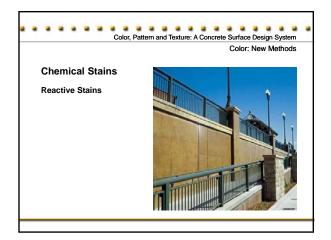




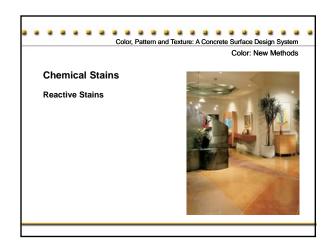


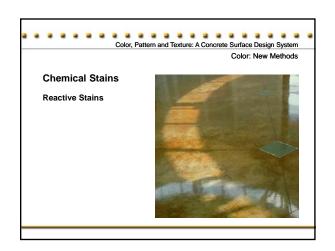




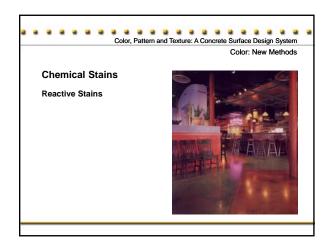


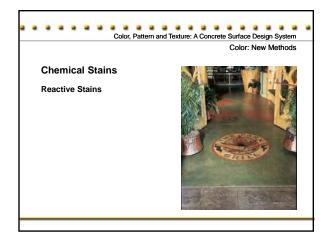




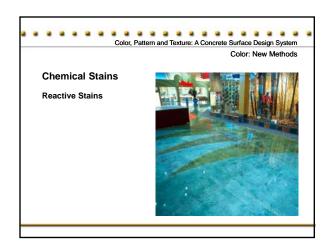


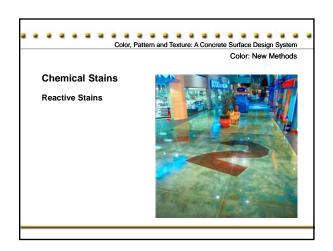




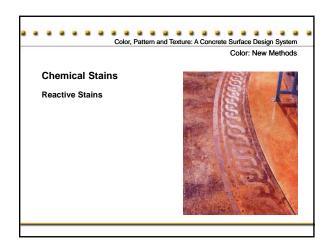






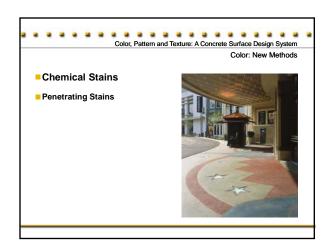


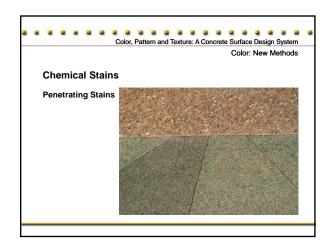


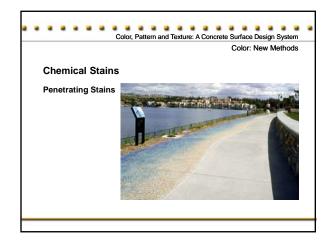


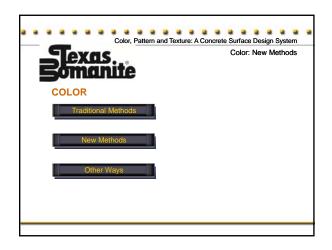












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Other Ways to Affect Concrete Color

Overlays or Toppings

Protective Treatments

Finishing

Exposed Aggregates

