



1. Product Name

Chromastain™

2. Manufacturer

McKinnon Materials, Inc.
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3. Product Description

BASIC USE

Chromastain™, manufactured by McKinnon Materials, Inc., is an environmentally friendly stain designed to add color to new or existing concrete surfaces. Originally developed for concrete and acrylic concrete overlay systems, Chromastain can also be used for other porous substrates, including wood and modified coatings. Because it is a nonacid, water-based stain that penetrates into the surface, factors such as surface composition, age, porosity and texture bring out variations that provide a more natural appearance.

Use it for properly prepared interior or exterior surfaces, including:

- Concrete
- Masonry walls
- Patios
- Basement floors
- Sidewalks
- Garage floors
- Pool decks

COMPOSITION & MATERIALS

Chromastain is a pure acrylic latex.

SIZES

Chromastain is packaged in 5 gal (19 L) pails. A sample kit is available with all 6 colors of Chromastain, plus Reducer and Crystal Coat.

COLORS

- Forest Green
- Sierra Black
- Mesa Brown
- Sunset Orange
- Rustic Yellow
- Royal Blue
- Heart Red



BENEFITS

- Improves the appearance of concrete floors, with a variety of color options that can be saw cut for additional effect
- Adds color without covering up existing natural qualities, textures and variations of the surface
- Simplifies maintenance procedures, requiring only sweeping and occasional light waxing
- Environmentally friendly, acid-free solution provides an acid stain appearance, without the need for neutralization and without hazardous waste
- User friendly and can be applied up to 3 times per area
- Cost effective alternative to wood, ceramic and tile floors

LIMITATIONS

- Not for use on surfaces subject to hydrostatic pressure
- Cannot be diluted with water; a reducer must be used

ACCESSORIES

- Chromastain Reducer - Cuts the strength of the stain, lightening the color; available in 1 gal (3.8 L) and 5 gal (19 L) containers
- Crystal Coat Sealer - A cross-linking acrylic that can be applied with a brush or roller to produce a high gloss finish

4. Technical Data

APPLICABLE STANDARDS

ASTM International (ASTM)

- ASTM D891 Standard Test Methods for Specific Gravity, Apparent, of Liquid Industrial Chemicals
- ASTM D1293 Standard Test Methods for pH of Water
- ASTM D2834 Standard Test Method for Nonvolatile Matter (Total Solids) in Water-Emulsion Floor Polishes, Solvent-Based Floor Polishes, and Polymer-Emulsion Floor Polishes
- ASTM D3505 Standard Test Method for Density or Relative Density of Pure Liquid Chemicals
- ASTM D3418 Standard Test Method for Transition Temperatures and Enthalpies of Fusion and Crystallization of Polymers by Differential Scanning Calorimetry

PHYSICAL/TECHNICAL PROPERTIES

See Table 1.

5. Installation

PREPARATORY WORK

Deliver products in the manufacturer's original, unopened, undamaged containers with identification labels intact. Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer. Verify that site conditions are



TABLE 1 PHYSICAL/TECHNICAL PROPERTIES		
Property	Test Method	Results
Total solids %	D2834	11.1 - 12.5
Specific gravity	D891	1.05
Density, #/gal	D3505	8.45
Tg	D3418	108 degrees F (42 degrees C)
Ph, 68 degrees F (20 degrees C)	D1293	7.0 - 9.0

acceptable for installation. Do not proceed with installation until unacceptable conditions are corrected.

METHODS

Follow the manufacturer's instructions for installation.

Mixing

Chromastain is designed to be used full strength from the bottle. Chromastain Reducer can optionally be added to lighten the stain color; other colors can be achieved by combining stain colors.

Application

Chromastain can be applied in any of the following manners:

- Spray the color with a sprayer, pump up sprayer or another type of spray equipment
- Sponge the color into place
- Apply the color with a rag
- Use a brush or roller to apply color

McKinnon Materials' preferred application is to use a pump up sprayer. Load the sprayer with the lightest color being used, such as

yellow, and either solid coat the surface or spray spots all over. Take the next color and do the same. Afterward, lightly spray the final color.

Two coats of sealer are required after the stain dries. Use either a water- or solvent-based sealer, depending on requirements or preference. Kits include a 16 oz (0.45 kg) Crystal Coat sealer that can be used with a brush or roller to seal the Chromastain. Because it is a cross-linking acrylic that produces a high gloss finish, it is important to use 2 thin coats of Crystal Coat.

BUILDING CODES

Installation must comply with the requirements of all applicable local, state and federal code jurisdictions.

6. Availability & Cost

Product and pricing information is available from certified distributors. Contact McKinnon Materials, Inc., for information on local availability.

7. Warranty

Complete warranty terms and conditions are available from the manufacturer. For details, consult McKinnon Materials, Inc.

8. Maintenance

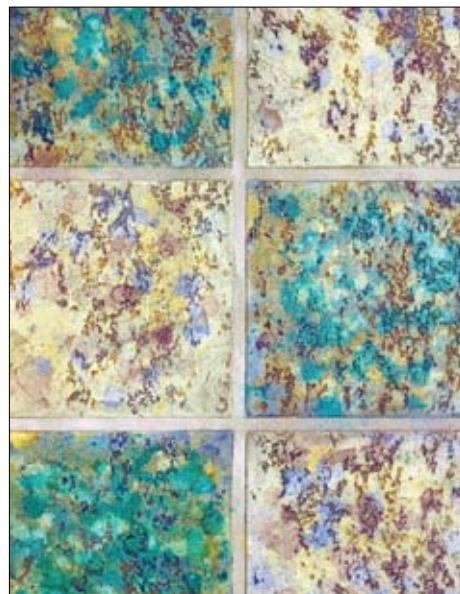
No special maintenance is needed for properly applied product. Sweep to clean. Wash with neutral commercial floor cleaner and periodically apply light floor wax. The amount of floor traffic determines floor wax and sealer requirements.

9. Technical Services

For technical assistance, including additional product information, product literature, test results, project lists, assistance in preparing project specifications and arrangements for application supervision, contact McKinnon Materials, Inc.

10. Filing Systems

- Additional product information is available from the manufacturer upon request.



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Chromastain/ Chromastain Reducer

Environmentally friendly water-based stain designed specifically for acrylic concrete overlay systems in addition to concrete surfaces; penetrates the acrylic concrete, adheres to the surface, and is self sealing; may be applied up to three times on the same area; extremely user friendly and can be sprayed as well as rolled or sponged onto surfaces.

PERFORMANCE PROPERTIES:

Appearance	1. Stain: Sierra Black, Mesa Brown, Heart Red, Orchard Orange/Red, Rustic Yellow, Forest Green, Royal Blue; 2. Reducer: white	
Chemical Description	Pure Acrylic Latex	
Typical Properties	Physical Form	White
	Total Solids %	11.1 – 12.5
	Specific Gravity	1.05
	Density, #/gal	8.45
	Tg, °C (onset)	42
	Ph, 20°C	7.0 – 9.0
	Viscosity at 22°C, cps	50 - 400
Applications	An acrylic latex stain solution intended to be used to stain or color the surface of any porous substrate such as, but not limited to, wood, concrete acrylic, modified coatings (overlays, acrylic deck overlays, acrylic modified concrete, paint)	
Safety Handling	Chromastain may contain traces of residual monomers, therefore adequate ventilation should be employed.	
Characteristics	1. Water blush resistance 2. Early water and moisture resistance 3. Good exterior weatherability and U.V. resistance 4. Very good adhesion and penetration of concrete substrates.	
Packaging	5 gal plastic pail 1 gal plastic or metal can	
	Instructions for use: 1. Chromastain™ is formulated to be user friendly. It is designed to be used full strength straight out of the bottle, or if you wish to lighten the stain color you can use the bottle marked “reducer” to do so. You can also achieve other colors by combining any of the colors. 2. Application Method: (You can use any of the following methods): a. Use the included sprayer to spray the color, or a pump up sprayer, or any other type of spray equipment.	

	<ul style="list-style-type: none">b. Sponge to place the stainc. Rag the color ond. Brush or roller can be used to apply color <p>3. Using on a full-scale job:</p> <ul style="list-style-type: none">a. McKinnon Materials' preferred application is done with a pump up sprayer; simply load the sprayer with the lightest color that you are going to be using, such as yellow, and then take the sprayer and either solid coat the surface with it or just spray spots all over. Then take the next color such as red and do the same. After this, lightly spray the entire surface with brown. [colors mentioned are only an example]b. Wrapping up your job: After the stain is dry, it is required that you put on 2 coats of sealer. This can be either water- or solvent-based depending on your requirements or preference.
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