

## **Product Description**

FLEXMAR<sup>®</sup> Variegate<sup>TM</sup> 0 VOC polyaspartic polyurea semi-transparent stain sealer is a combination primer and sealer finish containing factory-mixed dyes and pigments that gives the effect of varied or altered colors simulating acid, dye, or acrylic staining, or other methods. It can be applied to properly prepared concrete, overlayments, wood decks, or deck-like substrates.

FLEXMAR Variegate polyaspartic polyurea semitransparent stain sealer has excellent wetting and penetration into the pores of these substrates and provides excellent bond strength. This combination primer and sealerfinish containing dyes and pigments saves time and labor steps, allowing decorative concrete or wood staining projects to be completed in hours within a given day and same-day walk-on within 1 to 2 hours of the application. It is excellent for all-seasons application and will harden at temperatures below freezing.

FLEXMAR Variegate has excellent outdoor properties and is highly resistant to UV rays, color change, loss of gloss, abrasion and wear, mechanical impact, staining, commercial and household cleaners, pool water treatment products, and hot tire pick-up.

## **Product Features and Benefits**

- Achieves a natural, stone- or marble-like appearance.
- Combination self-priming and color stain sealer-finish coat.
- Highly resistant to UV rays, color change, and fading and loss of gloss.
- Can reduce floor care, cleaning, and maintenance costs.
- Excellent resistance to abrasion, impact, wear, staining, hot tire pickup, commercial and household cleaners, and splash and spill chemical exposure.
- Low-temperature cure (-30°F/-34°C); longer cure time needed in low temperatures. (Note: Reference is related to surface temperature, not ambient temperature.)
- Recoat and walk-on time 1 hour; return to service, 1 to 2 hours.
- Can add micro media agents to improve slip reduction.
- VOC free.
- Low solvent odor.

## Limitations

- Not recommended for use over solvent- or water-reducible acrylic sealers or stains.
- Not for use by spray application.
- Not for use by do-it-yourself individuals.

## **Product Uses**

- Stain Colors Over Concrete: Single- or multiple-coat system that achieves the desired variegation effect of simulated acid, dye, or acrylic staining or other methods used in decorative concrete. As a stand-alone system, it achieves a high level of abrasion, impact, staining, hot tire pick-up, chemical, and UV resistance properties without the need for an additional enhancing sealer.
- Stain Colors Over Wood or Wood-Like Decking: Single or multiple coats to achieve penetration into the pores and provide a high degree of adhesion and resistance to staining and moisture penetration. As a standalone system it achieves a high level of resistance to abrasion, impact, staining, chemical, and UV attack without the need for an additional enhancing sealer.
- Stain Colors Over VCT Tiles: Can be used over properly prepared, intact VCT tiles. First, apply a FLEXMAR solid color over the prepared tiles, followed by a coat of Variegate stain sealer to achieve the desired variegated appearance. Next, apply a FLEXMAR clear sealer finish.
- A final clear finish coat is optional. But if desired or required, FLEXMAR polyaspartic aliphatic polyurea standard clear sealer-finish can provide:
  - ✓ Additional resistance to abrasion, wear, UV attack, color change, loss of gloss, dirt or hot tire pick-up, staining, household or commercial chemical cleaners, or pool treatment chemicals.
  - ✓ Optical clarity and help in "popping" the colors of underlying surfaces and their colors, making them more vivid and pronounced.
  - ✓ Great reduction of the graying effects of wood decking exposed to direct UV ray attack.

#### FLEXMAR Coatings, Inc.

P.O. Box 210 New Kensington, PA 15068 Office: 724-339-1442 Fax: 724-339-1465



# Variegate<sup>™</sup> Semi-Transparent Stain Sealer 0 VOC Polyaspartic Aliphatic Polyurea

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## **Product Data**

Type of Material: Polyaspartic Aliphatic Polyurea

VOC Content: 0 VOC

Recommended Dry Film Thickness: 1 to 6 mils per

coat Colors: Refer to FLEXMAR color chart

Gloss: High

**Shelf Life:** 12 months unopened. Store at  $40^{\circ}$ F to  $100^{\circ}$ F ( $4^{\circ}$ C to  $38^{\circ}$ C) in a covered area (out of direct sun)

Working Time:\* 11 to 15 minutes

Minimum Recoat and Walk-On:\* 1 hour or less

Return to Service:\* 1 to 2 hours minimum

Maximum Recoat:\* 48 hours (contact manufacturer)

Mixing Ratio:\* 1.0 part A; 1.0 part B

#### **Typical Property Profile:**

#### **Theoretical Volume Solids Coverage:**

	72%	93%
1 mil DFT	1,155 ft <sup>2</sup>	1,488 ft <sup>2</sup>
2 mils DFT	577 ft <sup>2</sup>	744 ft²
3 mils DFT	385 ft <sup>2</sup>	496 ft <sup>2</sup>
4 mils DFT	289 ft <sup>2</sup>	372 ft <sup>2</sup>
5 mils DFT	231 ft <sup>2</sup>	298 ft <sup>2</sup>
6 mils DFT	193 ft <sup>2</sup>	248 ft <sup>2</sup>
7 mils DFT	NR	213 ft <sup>2</sup>
8 mils DFT	NR	186 ft <sup>2</sup>
9 mils DFT	NR	165 ft <sup>2</sup>
10 mils DFT	NR	149 ft²

\*@ 70°F (20°C) and 50% Relative Humidity

## **Surface Preparation for Concrete**

Before application the receiving surface must be deemed structurally and mechanically sound, clean, and dry. Proper surface preparation is required for decorative-concrete, thin-film "Class-A-type" flooring systems or sealer-finish coatings. This is best achieved with mechanical grinding machines using diamond heads, achieving a final 50- to 120-grit profile. Recommended surface profile is SP-2, Reference ICRI Technical Guideline No. 03732.

All receiving surfaces must be free of previous coatings, sealers, curing compounds, water repellants, laitance, efflorescence, oils, fats, grease, waxes, residues from cleaning compounds, non-visible soluble salts, and any other impediments to adhesion. The resulting surface must be a neutral pH 7.

Always check for potential bond breakers. One method is simply wiping the surface of the prepared concrete with a dark cloth. If white powder is present it should be removed. Another method entails pouring a slight amount of water on the concrete in random areas. If the water is absorbed into the concrete and leaves it wet, the substrate is porous and thus acceptable. If water beads up, this indicates that a bond breaker is still present and further surface preparation steps are necessary, such as additional mechanical grinding.

The rising moisture vapor emission rate must not exceed 3 pounds per 1,000 square feet (3 lb/1,000 ft<sup>2</sup>) over a 24-hour period as measured by the calcium chloride test method, ASTM F-1869. The relative humidity in the slab must not exceed 80 percent.

Any repairs that are not associated with normal cleaning and surface preparation work (i.e., cracks, chips, pitted/ severe spalls deemed non-structurally sound or have levelness issues) must be properly addressed and remedied prior to application of the coating due to the fact that coatings follow the contours of the existing substrate. All spalls and cracks should be repaired in accordance with ICRI standards.

## Surface Preparation for Wood or Wood-Like Decking

For existing decks having previously been stained or untreated, it is necessary to mechanically prepare the surface by use of a random orbital sander beginning with 80 grit sandpaper and ending with 120 grit sandpaper. Follow this with complete solvent wiping using clean cloths and xylene to remove moisture in the substrate pores. Allow 45 to 60 minutes to dry before applying the Variegate semi-transparent colored stain or natural-look FLEXMAR standard clear polyaspartic aliphatic polyurea sealer-finish coat. Do not power wash as this adds moisture to the substrate pores that can cause problems associated with moisture entrapment.

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# Variegate<sup>™</sup> Semi-Transparent Stain Sealer 0 VOC Polyaspartic Aliphatic Polyurea

## **Surface Preparation for VCT Tiles**

Remove all wax build-up from tiles and seams. Roughen surface of tiles using a 50- to 80-grit sandpaper followed by thorough vacuuming. Then repair damaged or lifting tiles.

## Mixing

Mix "Part A" and "Part B" in equal parts (1:1) using a clean, dry, working pot. Stir gently using a mechanical stirrer, avoiding overmixing or creating a vortex that would introduce moisture. Do not mix at or below the dew point, which will shorten the working pot life. No induction time is required prior to use.

If micro-media agents are to be incorporated, add them after thoroughly mixing "A" and "B."

## Working Time

An approximate 11 to 15 minutes working time exists at a temperature range of  $70^{\circ}$ F to  $80^{\circ}$ F (and 50% relative humidity). At higher temperatures and humidity the working time can be shorter.

## Application Instructions for Concrete or Overlayments

FLEXMAR Variegate semi-transparent stain sealer achieves its simulated acid stain look on concrete or overlayments by application methods, techniques, and surface porosities resulting from recommended surface preparation methods. Recommended application methods include paint roller (conventional or modified), Padco applicator, brush, mop, broom, squeegee, hand trowels, putty knives, and/or hand gloves with cloths or rags. One or more coats of the Variegate stain sealer can be applied following the recoat instructions. A final coat of FLEXMAR polyaspartic aliphatic polyurea clear sealer-finish can be applied for additional performance properties.

# Application Instructions for Wood or Wood-Like Decking

FLEXMAR Variegate semi-transparent stain sealer can best be applied to flat or vertical surfaces using a brush, industrial-grade roller with a phenolic-resin core and a synthetic nap or lambs wool cover, <sup>1</sup>/<sub>8</sub>- to <sup>3</sup>/<sub>8</sub>-inch nap, or Padco applicator. It is best to use a back-and-forth motion running with the grain of the wood. One or more coats of FLEXMAR Variegate stain sealer can be applied following the recoat instructions, or for a natural look of the wood apply FLEXMAR clear polyaspartic aliphatic polyurea sealer-finish.

## **Application Instructions for VCT Tiles**

Apply a FLEXMAR solid-color coat over the tiles using an industrial-grade roller with a phenolic-resin core and a synthetic nap or lambs wool cover, <sup>1</sup>/<sub>8</sub>- to <sup>3</sup>/<sub>8</sub>-inch nap. Next, apply FLEXMAR Variegate stain sealer using a <sup>3</sup>/<sub>8</sub>inch nap roller or Padco applicator to achieve the desired variegated appearance. Next, apply a FLEXMAR clear sealer finish.

## Cleanup

Use Xylol or MEK. DO NOT USE ALCOHOLS.

## Storage and Shelf Life

The product must be stored in tightly sealed containers in a climate-controlled, dry location at normal room temperature. Containers which have must be re-sealed immediately.

## Safety Precautions

Polyaspartic aliphatic polyurea products contain chemical ingredients that are considered hazardous. Read the container label warning and Material Safety Data Sheet for important health and safety information prior to use for details on the safe handling and use of these products.

Always use good air ventilation to remove evaporating solvents in enclosed areas.

This product is not recommended for application using spray atomization or for do-it-yourself applications.

NON-Warranty: The information herein is based upon the best information available at the time of printing. Data provided is intended for those having skill and ability to use products recommended in a safe and responsible manner. LIABILITY is limited to the cost of material proven to be defective. There is no warranty expressed or implied as related to any issue which is deemed to be a direct result of improper surface preparation or cleaning, application over concrete or cementitious surfaces which have not reached full cure out, those having excessive rising moisture/vapor or hydrostatic pressure, application over surfaces which have previously been sealed without first testing for compatibility/adhesion, adverse water conditions, acts of God or acts of others, constant submersion in harsh environments, workmanship or applicator, or any other cause and effect which is not related to defective material.

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Office: 724-339-1442 Fax: 724-339-1465 www.flexmarpolyaspartics.com