



SPECTRUM WATER-BASED STAIN

DATA SHEET NO. 3300-960

DESCRIPTION

SPECTRUM WATER-BASED STAIN is a water-based, polymer-modified, premium-grade, concentrated stain for use over existing, interior, or exterior concrete substrates, as well as other porous surfaces. SPECTRUM WATER-BASED STAIN forms a breathable film, offers excellent durability, and is resistant to alkalis and fading. To achieve optimum performance, all surfaces coloured with SPECTRUM WATER-BASED STAIN must be sealed with a suitable W. R. MEADOWS product, such as DECRA-SEAL™ or DECRA-SEAL W/B.

USES

SPECTRUM WATER-BASED STAIN is available in 14 decorative colours, offering the user multiple decorative options, including adding colour, changing an existing colour, and the ability to restore/rejuvenate aging concrete or other porous surfaces, etc.

Please contact a W. R. MEADOWS representative for a current SPECTRUM WATER-BASED STAIN colour selection chart.

SPECTRUM WATER-BASED STAIN, when properly sealed with a W. R. MEADOWS product, may be used on interior or exterior porous substrates, including, but not limited to: concrete flatwork, concrete pavers, patterned concrete, concrete blocks, cementitious overlays/micro-toppings, etc. Ideal applications include driveways, garage floors, pool decks, office complexes, schools, hotels, shopping malls, restaurants, theme parks, and other high traffic areas where adding, enhancing, or changing the colour is desired.

LEED INFORMATION

May help contribute to LEED credits:

- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials
- EQ Credit 4.2: Low Emitting Materials – Paints and Coatings

FEATURES/BENEFITS

- Can be used on interior concrete floors and exterior concrete hardscapes.
- Ideal on substrates that would be minimally reactive with an acid-based stain.
- Much less labour intensive than an acid-based stain and has no waste-disposal issues.
- All colours offer excellent durability.
- Resistant to fading (UV stable).
- All colours are totally compatible – both in the wet and dry forms.
- Colours can be layered, mixed, and/or sprayed simultaneously to achieve desired appearance.

- Can be used on acid-based stained surfaces that have been properly neutralized.
- Compatible with concrete overlays as a topical stain or integral color.
- May be applied over previously sealed surfaces. (See Precautions/Limitations and Detailed Application Instructions.)
- Environmentally and user-friendly alternative to acid-based stains.
- Supplied in concentrate form.
- Easy to use.
- Dries quickly.
- Non-flammable, low odour.
- Low VOC content (colour dependent).
- Contains no acid.

TECHNICAL DATA (Typical)

Appearance:	Liquid, emulsion
WPG, lb./gal.:	8.9
Total solids (% by volume):	30 +/- 2
Gloss:	Eggshell finish
Flash point, °C (°F):	>100 (>212)
VOC, g/L:	142-165* (as supplied)
	8-11* (after dilution)
	*colour-specific

Chemical Resistance:

	<u>Concentrate</u>	<u>Diluted (10%)</u>
Acid:	Good	Excellent
Alkalis:	Excellent	Excellent
Solvents -		
Aliphatic:	Good	Good
Aromatic:	Good	Good
Ketones:	Poor	Poor
Salt:	Excellent	Excellent
Water:	Excellent	Excellent

Abrasion Resistance:

Taber abrasion results meet or exceed the abrasion results of an acid-based stain. A detailed independent test report is available upon request.

REGULATORY COMPLIANCE - VOC

SPECTRUM WATER-BASED STAIN complies with all applicable federal, state, district and local AIM VOC regulations. The actual VOC content is colour-dependent.

PACKAGING

- 0.95 Litre (1 U.S. Quart) containers
- 3.78 Litre (1 U.S. Gallon) containers
- 18.93 Litre (5 U.S. Gallon) pails (special order only)

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SHELF LIFE

As Supplied (Concentrate): One (1) year in unopened, factory-sealed container. Store in a dry area away from moisture at 4 - 43°C (40 - 110°F).

After Dilution: Three (3) months in tightly-closed container. Store in a dry area, away from moisture, at 4 - 43°C (40-110°F).

DILUTION

SPECTRUM WATER-BASED STAIN is supplied as a concentrate to be diluted with distilled, de-ionized, or reverse osmosis water (or a combination of SPECTRUM SURFACE ENHANCER and water for the base/primary colour) to provide the user with multiple colours and/or color combinations. The recommended dilution ratios can be found in the W. R. MEADOWS publication - DETAILED APPLICATION INSTRUCTIONS FOR SPECTRUM WATER-BASED STAINS.

CAUTION: Tap ("hard") water is NOT recommended for dilution. Distilled, de-ionized or reverse osmosis water is required to achieve optimum performance and appearance.

COVERAGE

Approximate coverage is 23.2 – 37.2 m² (250 – 400 ft.²) per diluted gallon. Coverage will vary depending on dilution ratio, porosity, profile, application techniques, condition of the concrete/masonry substrate, etc.

SURFACE PREPARATION and APPLICATION

For proper surface preparation and application instructions, please refer to the W. R. MEADOWS publication - DETAILED APPLICATION INSTRUCTIONS FOR SPECTRUM WATER-BASED STAINS.

PRECAUTIONS/LIMITATIONS

- **PROFESSIONAL USE ONLY** - SPECTRUM WATER-BASED STAIN is designed for applicators experienced and trained in concrete surface preparation and the use and application of these types of products.
- Prior to using SPECTRUM WATER-BASED STAIN and/or associated products, please carefully read and follow data sheet, MSDS, and Detailed Application Instructions.
- **Prior to a full-scale application, ALWAYS apply a small test section to each surface that will be stained, using the same applicator, equipment, temperatures/conditions, surface preparation, application techniques, etc.**
- Not recommended for dense surfaces, such as glazed tile, marble, granite dense brick, dense slate, terrazzo, etc.
- Inconsistencies in jobsite conditions, application techniques, substrate porosity, temperatures, weather conditions, etc., may produce variations in the appearance and/or adhesion of the final film.
- For optimum appearance and performance, it is recommended that new concrete or other porous surfaces be a minimum of 28 days old prior to the application of SPECTRUM WATER-BASED STAIN and applicable W. R. MEADOWS sealer.
- Application by airless sprayer is recommended.
- Applications using a roller, brush, sponge, etc., may leave lap/mechanical marks and/or lines.

- The substrate must be sound and free of all surface irregularities and foreign materials that would inhibit the proper adhesion/bond of SPECTRUM WATER-BASED STAIN. This includes, but is not limited to: laitance, loose concrete, dust, dirt, grease, glues/mastics, paints/coatings, concrete curing compounds, adhesives, form release, and penetrating products, such as silicates, silanes, siloxanes, etc.
- Prior to application over a previously sealed surface, please refer to the W. R. MEADOWS publication guide - DETAILED APPLICATION INSTRUCTIONS FOR SPECTRUM WATER-BASED STAINS.
- Not recommended for metal, resin, fibreglass, vinyl, rubber, glazed tile, and non-porous substrates.
- Do not use acid-etching as a cleaning/surface preparation method.
- Do not apply when excessive moisture, heavy condensation, high dew point, high relative humidity, etc. are present.
- Do not use where hydrostatic pressure is present or may develop.
- SPECTRUM WATER-BASED STAIN will not hide surface blemishes, construction errors, texture inconsistencies, etc. in concrete, cementitious patching compounds, or other porous substrates.
- SPECTRUM WATER-BASED STAIN (Natural) that has been diluted with water at a 1:1 ratio may hide colour inconsistencies/variations in concrete, cementitious patching compounds, or other porous substrates.
- Thoroughly protect all adjacent areas that are not to receive SPECTRUM WATER-BASED STAIN.
- **Do not seal or topcoat with methylmethacrylate sealers or penetrating products such as silicates, silanes, siloxanes, etc.**
- **KEEP FROM FREEZING.**

HEALTH AND SAFETY

If contact with the skin or eyes occurs, flush area with water. Consult product Material Safety Data Sheet for complete health and safety information prior to use.

MASTERFORMAT NUMBER AND TITLE

09 93 00 Staining and Transparent Finishing

For most current data sheet, further LEED information, and MSDS, visit www.wrmeadows.com.

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