

# S-5000 Cem-Dye® (W)

TECHNICAL DATA SHEET

## DESCRIPTION:

S-5000 Cem-Dye (W) is a liquid dye that is soluble in water and acetone. With colors ranging from earth tones to vivid, it can be used along with acid stains or as a standalone coloring system, and is often used in conjunction with concrete polishing. This product offers a fast and affordable way to add color to interior concrete.

## USES:

- Polished Concrete
- Interior Concrete
- Intensify and enhance existing colored concrete
- Add visual texture and depth to a concrete surface or cementitious topping
- Build layers of color
- Even out color tones, blend and soften areas where stains reacted unevenly

## CHEMICAL COMPOSITION:

Metalized dye

## COLORS:

Available in 16 standard colors.



## MOISTURE VAPOR EMISSIONS PRECAUTIONS:

All concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission that may lead to blistering and failure of the coating system. It is the coating applicator's responsibility to conduct calcium chloride testing in compliance with ASTM F1869, or relative humidity probe testing in compliance with ASTM-F2170, to determine if excessive levels of vapor emissions are present before applying any coatings. Arizona Polymer Flooring offers **S-1300 Pene-Krete®** for cementitious overlay products and **VaporSolve® Moisture Remediation** systems for resinous floor coatings. Consult our technical service department. Arizona Polymer Flooring and its sales agents will not be responsible for coating failures due to undetected moisture vapor emissions.

## SURFACE PREPARATION:

Concrete must be clean and structurally sound. Substrate must have adequate profile for subsequent sealers to obtain good adhesion.

## MIXING:

Add 8-16 oz. of dye to one gallon of the water or acetone. Mix well with stir stick.

## SOLVENT SELECTION:

Acetone – Fast  
Water - Slow

Super-Krete® Products is a Division of Arizona Polymer Flooring, Inc.

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4565 W Watkins St. / Phoenix, AZ 85043 / 800.562.4921

623.435.2277 Tel. / 623.435.8585 Fax

[www.super-krete.com](http://www.super-krete.com)

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**APPLICATION RECOMMENDATIONS & COVERAGE:**

Cem-Dye (W) is normally applied at 200-300 sq. ft. per gallon and may be sprayed using low pressure solvent resistant sprayer, HVLP or air brush. The use of water will produce a floor with more variations in tone, while the use of acetone will produce a more monotone finish. A brush can be used for small areas. When brushing, it is best to use water as the solvent.

**SEALING:**

Arizona Polymer Flooring recommends all dyed surfaces be sealed with the appropriate sealer. Refer to **Super-Krete Products Sealer Selection Guide** to determine the most appropriate sealer for your project. Seal dyed floor using a low viscosity, sprayable sealer. Use appropriate sprayer and tip per sealer instructions. Two coats are recommended for superior protection. It is not recommended to roll on the first coat of sealer over dyed surface as it may reactivate the dye.

**SHELF LIFE:**

S-5000 Cem-Dye (W) has a shelf life of 1 year when properly stored in an unopened container. Material should be stored at 55°-90° degrees and no greater than 50% humidity. Ensure all packaging is tightly sealed to ensure the longest lasting shelf-life.

**PRECAUTIONS:**

- *Handling Precautions:* Use appropriate cartridge-type respirator. The use of flammable solvents presents a very real explosion and fire hazard if certain precautions are not carefully observed. Be sure the area is well ventilated with noticeable air movement. Set up fans if necessary. Eliminate all possible ignition sources during application. Read Safety Data Sheet before using.
- *Slip and Fall Precautions:* APF recommends coatings or surfacing systems meet ANSI (American National Standard Institute) and NFSI (National Floor Safety Institute) B101.3 Test Method for Measuring Wet DCOF (dynamic coefficient of friction) of Common Hard-Surface Floor Materials, a. incline surfaces >0.45; b. level surfaces >0.42. APF recommends the use of angular slip-resistant aggregate in all coatings or surfacing systems that may be exposed to wet, oily or greasy conditions. It is the contractor's and end user's responsibility to provide a coating or surfacing system that meets current safety standards. APF or its sales agents will not be responsible for injury incurred in a slip and fall accident. See APF Technical Bulletin Measuring Surface Traction and Engineering for Slip-Resistance.

**NOTES / LIMITATIONS:**

- For for INTERIOR USE ONLY. It is very important to note that if S-5000 Cem-Dye (W) is exposed to UV light, color will fade over time. The use of UV protection (window film, shades, etc.) will be a factor on the length of time before dye must be re-applied.
- Intended to enhance, rather than disguise the concrete surface.
- Will not hide cracks, blemishes or other flaws.
- Translucent and will not mask an underlying color.

**WARRANTY:**

Arizona Polymer Flooring guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. ARIZONA POLYMER FLOORING MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. Arizona Polymer Flooring shall not be liable for damages caused by application of its products over concrete with excessive moisture vapor transmission or alkalinity. Arizona Polymer Flooring shall not be liable for any injury incurred in a slip and fall accident. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product.

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