



# Water Base 55 Epoxy

**PRODUCT DESCRIPTION:** SS Water Base 55 Epoxy is a specially formulated, low odor, two component, water based epoxy top coat for interior concrete and masonry, providing excellent wear and chemical resistance. Use Water Base 40 Epoxy as the prime coat.

**BENEFITS/FEATURES**

- Excellent substrate wetting and penetration.
- Superior adhesion strength for a bond coat.
- Fast cure system with reduced re-coat times.
- Low odor.

**RECOMMENDED APPLICATIONS:** Apply to a mechanically prepared, structurally sound and dry concrete substrate to a CSP-2 as per the ICRI Technical Guideline No. 03732. SS Water Base 55 Epoxy ideal for wall and floor coatings in commercial, retail and high traffic areas. Use Water Base 40 Epoxy as the prime coat.

**TECHNICAL INFORMATION**

|  |                      |
|--|----------------------|
| Abrasion Resistance .....  | 45–55 mg. loss       |
| <small>(Taber Index, ASTM 4060–81, CS–17 Abrasion Wheel, 1000 gram load)</small>                 |                      |
| Gloss 60 .....   | 90                   |
| Flexibility (1/8" Mandrel) .....   | Pass                 |
| Pencil Hardness (7 days) .....   | Fail                 |
| Water Resistance .....   | Excellent            |
| Solids % Weight (Federal Spec. TTP–141B) .....   | 55%                  |
| Density lbs/ga. (Federal Spec. TTP–141B) .....   | 8.96                 |
| VOC .....  | < 20 grams per liter |
| Mix Ratio (a/b volume) .....   | 2 to 1               |
| <small>** 9.1# part A (1.0 gallon approximate) to 4.36# part B (.50 gallons approximate)</small> |                      |
| Coverage (3–5 mils dft.) .....   | 250–330 sq. ft./ga   |
| Viscosity .....  | 200–500 cps          |
| Pot Life .....   | 1–1.5 hours          |



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|  |  |
|--|--|
| Dry Time—Set to Touch (50% RH @ 72°F).....               | 20–40 minutes                            |
| Dry Time—Recoat (50% RH @ 72°F) .....                    | 4–6 hours                                |
| Dry Time—Light Traffic (50% RH @ 72°F) .....             | 6–12 hours                               |
| Dry Time—Full Cure (heavy traffic) (50% RH @ 72°F) ..... | 2–5 days                                 |
| Application temperature .....                            | 55–90°F with relative humidity below 75% |

**CHEMICAL RESISTANCE**

*Chemical spot resistance with a 1 hour and 18 hour exposure*

|                     | <u>1 h</u> | <u>18 h</u> |
|---------------------|------------|-------------|
| Toluene             | +          | +           |
| Ethanol             | +          | +           |
| Sulfuric Acid (10%) | +          | +           |
| Acetic Acid (3%)    | +          | +           |
| Acetic Acid (10%)   | H/B        | B           |

+ = no change; H = haze; B = blisters

*Food stain resistance with an 18 hour exposure*

|          |              |
|----------|--------------|
| Coffee   | no change    |
| Ketchup  | no change    |
| Mustard  | no change    |
| Red Wine | slight stain |

**SHELF LIFE:** SS Water Base 55 Epoxy has a shelf life of one year in its original, sealed, unopened container.

**PACKAGING:** SS Water Base 55 Epoxy is packaged in 3 quart, 3 gallon and 15 gallon kits.

**INSTRUCTIONS FOR USE**

**SURFACE PREPARATION:** For a thin film build system (3-10 mils) we suggest either mechanical scarification, acid etching (and then neutralize to 7 pH), or diamond grinding until an appropriate profile is accomplished. For a high build system (over 10 mils), we suggest a fine brush blast (shot blast). To ensure adequate adhesion, the substrate must be free of all dirt, oil, dust, laitance and foreign contaminants. Vapor testing is recommended by placing a 24" X 24" plastic sheet on the substrate and completely taping down the edges or by using the Wagner Rapid RH or similar device. The plastic sheet will indicate if any moisture has moved during that particular time frame. The Rapid RH provides a more accurate picture of potential moisture related issues by indicating the temperature and humidity of the slab well below the surface. However, SS Water Base 55 Epoxy can be applied to a damp floor as long as there are no standing puddles and the dampness is not from a continuous source of moisture due to lack of a vapor barrier. Adhesion tests are recommended prior to using. Use Water Base 40 Epoxy as the prime coat.

**PRODUCT MIXING:** Pour a full pre-packaged kit of 2 part of Part A to 1 part of Part B together and mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and homogenous. Thorough mixing provides for adequate curing and a streak free finish.

**PRODUCT APPLICATION:** Apply the mixed material by brush or roller with a 1/4" nap-3/8" nap shedless roller cover within the usable pot life time frame, as well as the recommended temperature and relative humidity guidelines listed in the Technical Information section. If

continuous concrete outgassing causes bubbles, re-roll the material using a cross rolling method before the material cures to reduce or eliminate air entrapment. If the material becomes thick while applying and sticking to the roller, it has reached the end of the usable pot life. Discard the mixed material. Maintain a wet edge to prevent roller marks. Work in sections using control joints as dividers when possible to ensure proper application results. Do not allow to puddle! If re-coating after 24 hours a light sanding using a fine sanding screen may be needed to ensure adequate inner coat adhesion.

**PLEASE NOTE:** Applying SS Water Base 55 Epoxy outside of the suggested parameters may result in coatings failure. It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. Coverage rates may vary for all coatings and substrates depending on porosity, density, texture etc.

**CLEAN UP:** Use PM Solvent. Dispose of containers in accordance with local and federal regulations.

**PRODUCT REMOVAL:** Dried, cured urethane may be removed with a commercial stripper, but recommended removal is by way of mechanical means, including sanding, shot blasting, etc.

### **PRECAUTIONS AND LIMITATIONS**

- All new concrete must be cured for at least 28 days prior to application.
- Coverage rates depend upon many conditions including application method, surface porosity, applicator, etc.
- SS Water Base 55 Epoxy should be applied in thin coats. Do not puddle.
- Be aware that this product may be slippery when wet. Anti slip additives may be needed to reduce surface slip hazards.
- SS Water Base 55 Epoxy may darken the surface of many new and existing concrete substrates. Test prior to use.
- Product will yellow in the presence of UV light or other forms of light such as sodium vapor lighting.
- Physical properties listed on this technical data sheet are typical values not specifications.

\*If applying over an existing coating, proper adhesion and compatibility tests are essential. In this application the substrate preparation, application, performance and all other liabilities are strictly the end users responsibility. Cimarron Wholesale offers no guaranty, warranty or other claims to the success or results of the job in this circumstance.

**SPECIAL NOTES:** Please consult Material Safety Data Sheet (MSDS) and read Warranty information prior to use. This information can be requested by contacting customer service at 866-906-2006.

*April 26, 2010*