The following are work surface performance requirements which the specifier may wish to insert into Part 1 of the casework specifications.

 **1. WORK SURFACE PERFORMANCE REQUIREMENTS**

 A. Test procedure: Apply five drops of each reagent to surface and cover with 25mm watch glass, convex side down; test volatiles using one ounce bottle stuffed with saturated cotton. After 24 hour exposure flush surface, clean, rinse and wipe dry.

 B. Evaluation ratings: Change in surface finish and function shall be described by the following ratings:

 1. No Effect: No detectable change in surface material.

 2. Excellent: Slight detectable change in color or gloss, but no change to the function or life of the work surface material.

 3. Good: Clearly discernible change in color or gloss, but no significant impairment of work surface function or life.

 4. Fair: Objectionable change in appearance due to surface discoloration or etch, possibly resulting in deterioration of function over an extended period.

 5. Poor: Pitting, cratering or permanently etching of work surface material; obvious and significant deterioration.

 C. Test Results - Epoxy Resin Work Surface (Black):

 CHEMICAL - ACIDS RATING

 1. Hydrochloric Acid 20% No Effect

 2. Hydrochloric Acid 37% No Effect

 3. Nitric Acid 20% Excellent

 4. Nitric Acid 70% Good

 5. Sulfuric Acid 25% Poor

 6. Sulfuric Acid 85% Poor

 7. Sulfuric Acid 96% Poor

 8. Phosphoric Acid 85% No Effect

 9. Perchloric Acid 60% No Effect

 10. Aqua Regia -- No Effect

 11. Chromic Acid 60% Good

 12. Acetic Acid 98% No Effect

 13. Formic Acid 90% No Effect

 14. Boric Acid Sat. No Effect

 15. Citric Acid Sat. No Effect

 16. Oxalic Acid Sat. No Effect

 17. Hydrobromic Acid 48% No Effect

 18. Hydroflouric Acid 48% Good

 19. Vinegar -- No Effect

 CHEMICAL - BASES

 20. Ammonium Hydroxide 28% No Effect

 21. Sodium Hydroxide 10% No Effect

 22. Sodium Hydroxide 40% No Effect

 23. Sodium Hydroxide Flake No Effect

 24. Potassium Hydroxide 10% No Effect

 CHEMICAL - SALTS

 25. Zinc Chloride Sat. No Effect

 26. Calcium Hypochlorite Sat. No Effect

 27. Clorox Bleach -- No Effect

 28. Silver Nitrate 10% No Effect

 29. Sodium Sulfide Sat. No Effect

 30. Sodium Chloride Sat. No Effect

 31. Iodine, Tincture -- No Effect

 32. Hydrogen Peroxide -- No Effect

 33. Phenol 80% No Effect

 34. Cresol -- No Effect

 35. Formaldehyde 40% No Effect

 36. Mineral Oil 100% No Effect

 37. Glycerin 100% No Effect

 CHEMICAL - SOLVENTS

 38. Methyl Alcohol 100% No Effect

 39. Ethyl Alcohol 100% No Effect

 40. Buty Alcohol 100% No Effect

 41. Naphtha 100% No Effect

 42. Turpentine 100% No Effect

 43. Kerosine 100% No Effect

 44. Heptane 100% No Effect

 45. Gasoline 100% No Effect

 46. Benzene 100% No Effect

 47. Toluene 100% No Effect

 48. Xylene 100% No Effect

 49. Acetone 100% No Effect

 50. Methyl Ethyl Ketone 100% No Effect

 51. Methyl Isobutyl Ketone 100% No Effect

 52. Ethyl Acetate 100% No Effect

 53. Ethyl Ether 100% No Effect

 54. Chloroform 100% No Effect

 55. Methyl Chloride 100% No Effect

 56. Trichlorethylene 100% No Effect

 57. Carbon Tetrachloride 100% Excellent

 58. Monochloro Benzene 100% No Effect

 59. Dioxane 100% No Effect

 60. Furfural -- No Effect

 CHEMICAL - DYES

 61. Congo Red 1% No Effect

 62. Eosin Y 0.5% No Effect

 63. Gentian Violet 1% No Effect

 64. Indigo Carmen 0.5% No Effect

 65. Methyl Green 0.5% No Effect

 66. Wrights Blood Stain 0.35% No Effect

*Insert the following provisions in the designated location in Part 2 of the casework specification section.*

 **2. EPOXY RESIN WORK SURFACE**

 A. Material: Chemical and abrasion resistant, durable top of one inch thick cast material of epoxy resins and inert products, cast flat, with a uniform non-glare black matte finish.

*Edit the following to meet project requirements. Maximum epoxy resin backsplash height is 4".*

 B. Backsplash curb: Same material as top, [4] [ ]" up to 6" high, [integral with top, with 5/8" coved juncture to top surface] [butt jointed and cemented to top]. Provide [where indicated on drawings] [where tops abut wall surfaces] [and at reagent ledges]. Include end curb where top abuts end wall.

 C. Reagent ledges: Same material as top. Provide 6" high x 7-1/2" wide single faced units and 6" high x 9" wide double faced units [as shown on drawings] [as required]. Ledge face shall permit installation of service fixtures and top shall be removable for access to service utilities.

 END OF APPENDIX A.1