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## Ernest O. Lawrence Radiation Laboratory

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Internal Report

UNIVERSITY OF CALIFORNIA
Lawrence Radiation Laboratory
Berkeley, California

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# SUMMARY OF CORROSION SPOT-TEST RESULTS

A. E. Salo and N. B. Garden

June 1959

Printed for the U. S. Atomic Energy Commission

NOT FOR DISTRIBUTION OUTSIDE THE LABORATORY

# SUMMARY OF CORROSION SPOT-TEST RESULTS

A. E. Salo and N. B. Garden

Lawrence Radiation Laboratory
University of California
Berkeley, California

June 1959

The testing procedure used in determining these results is described by the writers in Spot Tests and Radiological Corrosion, UCRL-8619, February, 1959. Tests conducted prior to July 1955 were of 24 hours' duration; since then a 96-hour period has been used. The test conditions serve to compare various materials when subjected to the same insult. The chemical effects noted are valid only for the conditions of the tests. The results to be expected under other conditions cannot be extrapolated from these results. The following list is compiled to assist the University of California architects and engineers in considering materials to be used in the construction of chemical laboratory facilities. No condemnation nor recommendation of any specific product or vendor is intended.

To save space in the table, the following evaluation code is used:

A - No effect from chemical insult apparent. Excellent corrosion resistance under conditions of the test.

B - Slight etching or other damaging effect noted. Good corrosion resistance.

C - Moderate etching or other damaging effect noted. Fair corrosion resistance.

D - Moderate to severe etching or other damaging effect noted. Non-acceptable corrosion resistance.

E - Severe etching or other damaging effect short of complete destruction noted. Poor corrosion resistance.

F - Severe etching or other damaging effect noted to the extent of considering the material completely destroyed. Very poor corrosion resistance.

Since the degree of damage is in many cases subject to the judgment of the tester, anyone considering using these materials is urged to repeat the tests or to conduct further tests that more closely parallel contemplated conditions.

This work was done under the auspices of the U. S. Atomic Energy Commission.

| TRADE NAME | VENDOR | GENERIC TYPE | TEST NO. | TEST DATE | Sulfuric Acid 95% | Nitric Acid 70% | Hydrochloric Acid 36% | Hydrofluoric Acid 48% | Phosphoric Acid 85% | Acetic Acid 99% | Sodium Hydroxide | Sodium Carbonate | Ammonium Hydroxide | Chlorox | Gasoline | Ethyl Alcohol | Acetone | Ethyl Acetate | Carbon Tetrachloride | Benzene | Toluene | Chromic-sulfuric cleaning solution | Other | AVERAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A.A. | Cal. Metal Enamel Co. | Titanium enamel coating | 100 | 10/50 | A | A | C | F | B | C | B | B | B | A | A | A | A | A | A | A | A | A | | B |
| Acrypar | Bison Co. | Acrylic coating | 6 | 8/50 | F | F | D | D | E | F | A | A | A | A | A | F | F | F | F | F | - | F | D [1] | E |
| Alchemite | Bison Co. | PVC coating | 233 | 2/57 | F | B | A | A | A | A | D | A | A | A | A | D | F | F | A | F | F | F | | C |
| Amercoat 33 | Amercoat Corp. | PVC coating | 268 | 3/59 | F | F | D | F | F | D | F | D | D | A | A | F | F | F | F | F | F | F | | E |
| Amercoat 50 | " " | Epoxy coating | 274 | 5/59 | F | A | A | A | A | A | A | A | A | A | A | A | F | F | F | F | F | F | | C |
| Amercoat 74 | " " | PVC-Epoxy coating | 82 | 10/54 | B | F | A | B | C | A | A | A | A | A | A | A | A | A | A | A | A | C | | B |
| Amercoat 86 | " " | Red-lead primer | 273 | 5/59 | F | F | F | F | F | F | D | D | A | A | A | F | F | F | F | F | F | F | | E |
| Amercoat 1574 | " " | PVC-Epoxy coating | 59 | 8/53 | B | F | A | D | B | B | A | A | A | A | A | A | A | A | A | A | A | F | | B |
| Ampcoflex | Atlas Mineral Products | | 60 | 8/53 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | B | | A |
| Armstrong A-1 | | Adhesive | 188 | 6/55 | C | C | C | C | D | A | A | B | A | A | A | A | F | A | A | A | A | F | E [2] | B |
| Armstrong A-4 | | Adhesive | 190 | " | D | D | C | D | C | B | B | A | A | B | A | F | F | F | A | D | D | D | | C |
| Armstrong A-6 | | Adhesive | 189 | " | F | E | B | F | A | B | A | A | A | B | A | F | F | F | A | F | F | F | A [2] | C |
| Armstrong Accotred 1050 | Armstrong Pt. & Varn. | | 54 | 8/53 | C | F | C | B | B | B | F | B | A | A | B | A | B | B | A | B | B | D | | B |
| Armstrong Granette Corlon 6103 | " | | 55 | 8/53 | C | C | A | A | D | A | A | A | A | A | A | A | B | B | A | A | A | D | | B |

| TRADE NAME | VENDOR | GENERIC TYPE | TEST NO. | TEST DATE | Sulfuric Acid 95% | Nitric Acid 70% | Hydrochloric Acid 36% | Hydrofluoric Acid 48% | Phosphoric Acid 85% | Acetic Acid 99% | Sodium Hydroxide | Sodium Carbonate | Ammonium Hydroxide | Chlorox | Gasoline | Ethyl Alcohol | Acetone | Ethyl Acetate | Carbon Tetrachloride | Benzene | Toluene | Chromic-sulfuric cleaning sol'n | Other | AVERAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Armstrong Granette Corlon 6105 | Armstrong Pt. & Varn. | | 53 | 8/53 | E | E | A | B | C | A | B | B | B | B | A | A | D | D | B | B | B | E | | C |
| Atlas Zerok 101 | Atlas Pt. & Varn. | | 68 | 3/53 | A | B | A | C | A | A | A | B | B | B | A | A | F | F | A | B | C | B | | B |
| Bisonite 957 | Bison Co. | Phenolic Epoxy | 181 | 12/54 | A | B | A | A | A | A | A | A | A | B | A | A | A | A | A | A | A | B | | A |
| " 9574 | Hamilton Co. | " " | 228 | 2/57 | A | B | A | A | A | A | A | A | A | B | A | A | A | A | A | A | A | B | | A |
| " 947-4 | Bison Co. | " " | 67 | 12/53 | A | B | A | A | A | A | A | - | - | A | B | A | B | B | B | B | B | B | | B |
| " M | Ayres | | 265 | 3/59 | B | B | A | A | A | A | A | A | A | A | A | A | F | F | F | F | F | C | | C |
| " " 100 WC Prime 141-711 | Bison Co. | | 106 | 2/52 | - | A | A | A | - | - | - | - | - | - | - | - | F | F | - | A | E | A | | C |
| Carboline B Resin | Carboline Co. | Epoxy | 153 | 7/54 | A | A | A | A | A | A | A | A | A | A | A | A | F | F | A | A | A | A | | B |
| Carboline Mask Comp. 11-48 | " " | " | 215 | 2/56 | C | C | B | F | B | B | B | B | B | B | F | F | F | F | F | F | F | C | | D |
| Carboline Adhesive F-1 | " " | Neoprene | 216 | 2/56 | F | F | A | C | C | A | C | C | A | A | F | F | F | F | F | F | F | F | | D |
| Carboline XR 2710-12 | " " | | 213 | 2/56 | B | B | A | B | A | A | A | B | A | B | F | A | F | F | F | F | F | B | | C |
| Carbokote 6020 | " " | | 159 | 8/54 | B | F | A | F | F | A | A | A | A | A | A | A | A | A | A | C | A | F | | B |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Certified Metal Barrier | United Labs | | 173 | 11/54 | A | D | A | C | A | A | A | A | A | A | A | A | F | F | A | D | D | A | | B |
| Colonial Concrete Finish | Colonial Ref. & Chem. Co. | | 223 | 5/56 | B | A | A | B | C | A | F | D | A | A | A | A | F | F | A | F | F | B | | C |
| Concrete Coating | | Glass Fiber & Polyester | 78 | 5/53 | B | C | A | A | B | A | B | B | A | A | B | A | C | A | A | A | A | B | | B |
| Cordurite, Clear | | | 242 | 7/58 | F | F | A | F | F | B | A | A | A | A | A | A | D | D | A | A | A | F | | C |
| Corrosite Strip Coat | Corrosite Corp. | | 101 | 9/50 | A | B | A | A | A | A | A | A | A | A | A | A | F | F | F | F | F | A | | B |
| Corrosite 22 | " | PVC coating | 13 | 9/51 | A | A | A | A | A | A | A | A | A | A | A | A | F | F | C | F | F | A | | B |
| " " | " | " " | 25 | 9/51 | A | A | A | A | A | A | A | A | A | A | A | A | F | F | D | D | D | A | | B |
| " 44 | " | " " | 15 | 9/51 | A | A | A | A | A | A | A | A | A | A | A | A | F | F | D | D | D | A | | B |
| Corrosite plastistrip | " | " " | 14 | 9/51 | A | C | A | A | A | A | A | A | A | B | A | A | F | F | D | D | D | A | | B |
| " | " | | 26 | 9/51 | A | C | A | A | A | A | A | A | A | B | A | A | F | F | D | D | D | A | | B |
| Dayflex | Dayton Rub.Co. | PVC sheet | 254 | 1/59 | E | A | A | B | A | A | C | A | A | A | A | A | B | A | B | B | D | E | A + | B |
| Del J-31 & J-32 | David E. Long | Latex coating | 256 | 2/59 | F | F | F | F | F | F | F | A | A | B | B | A | B | B | B | B | B | F | | D |
| Del J-31 | " " " | " " | 257 | 2/59 | F | F | F | F | F | F | F | A | A | B | B | A | B | B | B | B | B | F | | D |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Devcon A | Chemical Dev. Corp. | (80% steel, 20% plastic) filler | 221 | 5/56 | F | F | F | C | F | C | A | A | A | A | A | B | F | D | A | D | D | F | | C |
| " B | " " | " " " | 222 | 5/56 | D | D | D | B | D | D | A | A | A | A | A | B | F | D | A | D | D | D | | C |
| Doidge-Koren Baketite 1706 | Doidge-Koren | | 75 | 4/54 | A | F | A | B | A | A | A | A | A | A | A | A | A | A | A | A | A | A | | A |
| Drum Lining 117 | Hamilton Co. | | 230 | 2/57 | B | B | A | B | A | A | C | B | A | B | A | B | B | B | A | B | B | B | | B |
| Duraflint | Briner Paint | | 160 | 8/54 | A | F | A | A | A | A | E | A | A | A | A | A | A | A | A | A | A | F | | B |
| Durcon | Duriron Co. | Polyester molded shapes | 241 | 7/58 | F | B | B | D | B | B | A | B | A | A | A | A | B | B | A | A | A | F | | B |
| Ebonacid | | | 147 | '48 | – | – | A | – | – | A | – | – | – | – | A | A | A | – | – | – | C | E | | B |
| Enamel, Non-std. (Centrifuge) | International Eqpt. Co. | Enamel coating | 126 | '48 | F | F | F | B | E | A | F | A | A | B | A | A | A | A | A | A | – | F | A [3] | C |
| Enamel, Std. (Centrifuge) | " " | " " | 127 | '48 | F | F | F | F | F | F | F | A | A | B | A | B | B | A | A | B | – | F | A [3] | C |
| Eonite Lacquer | Paramount Mfg. | Coating | 152 | 7/54 | A | F | A | A | A | A | A | A | A | A | A | A | F | F | C | A | A | A | | B |
| Epon Resin | Shell Chem. | Epoxy mold.liquid | 98 | '48 | F | E | D | F | A | A | A | A | A | A | A | A | A | A | A | A | A | – | | B |
| Epoxy 224 | Carboline Co. | " coating | 171 | 10/54 | F | F | F | F | F | F | F | F | B | A | A | A | F | F | A | F | F | F | | E |
| Exon 400 XR-61 | Goodrich Rub. | PVC | 44 | 5/53 | A | A | A | A | A | A | A | A | A | A | A | A | F | F | F | F | F | A | | B |
| Felt, Mexican | | Animal felt | 248 | 8/58 | F | F | F | A | E | C | C | – | – | A | A | A | A | A | A | A | A | F | | B |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ferro Enamel 1G-34 | Ferro Enameling Co. | Enamel coating | 258 | 3/59 | A | A | B | B | A | A | A | A | A | A | A | A | A | A | A | A | A | B | | A |
| Ferro Enamel 50-2501, 50-3522, 1550-5 | " " | " " | 259 | 3/59 | A | A | C | C | A | A | A | A | A | A | A | A | A | A | A | A | A | A | | A |
| Ferro Enamel 1588, 1520-4 | " " | " " | 260 | 3/59 | A | B | A | C | A | A | A | A | A | A | A | A | A | A | A | A | A | B | | A |
| Ferro Enamel XT-272,1520-4 | " " | " " | 261 | 3/59 | A | A | A | C | A | A | A | A | A | A | A | A | A | A | A | A | A | B | | A |
| Ferro Enamel 1505, 1520-4 | " " | " " | 262 | 3/59 | A | A | A | C | A | A | A | A | A | A | A | A | A | A | A | A | A | A | | A |
| Fire Resistant Paint | | | 11 | 12/52 | A | C | A | A | A | A | C | A | A | A | A | A | F | F | A | F | A | F | | B |
| " " | | | 12 | 12/52 | D | A | A | A | A | A | B | A | A | A | A | A | A | A | A | A | A | A | | A |
| Formica | Formica Co. | Phenolic molded sheet | 36 | 5/52 | B | B | B | E | B | B | E | B | A | B | C | C | C | C | C | A | A | B | | B |
| Furnane, Red | Atlas Mineral Prod.Co. | Mastic | 166 | 9/54 | F | C | A | F | D | D | F | D | A | A | C | F | F | F | A | D | F | F | | C |
| " ,Black | " " | " | 168 | 9/54 | A | F | A | A | A | A | A | A | A | C | A | A | F | F | A | A | A | C | | B |
| Gaco N-700 | Gates Eng.Co. | Neoprene sheet | 150 | 7/54 | B | C | B | A | B | B | B | B | B | B | F | F | F | F | F | F | F | D | | D |
| GPX,EXT DEPA 60/60 | Georgia Pac. Plywood | Plywood & phenolic urea | 71 | 4/54 | B | F | D | D | D | D | F | – | B | C | – | A | A | A | A | – | B | F | | C |
| GPX,EXT DEPA 226/226 | " " | " " " | 72 | 4/54 | B | F | B | B | B | B | F | B | A | A | A | A | A | A | A | A | A | F | | B |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hamline | | | 144 | '48 | A | A | A | A | A | A | B | A | A | – | – | A | – | – | – | A | – | – | A [5] | A |
| Hamlite | | | 145 | '48 | F | D | A | A | A | A | A | A | A | – | – | A | – | – | – | A | – | – | A [5] | B |
| Hammertone | Intern.Eqpt.Co. | Enamel coating | 141 | '48 | F | E | A | F | A | B | A | – | A | A | – | A | – | – | – | – | – | – | A [6] | B |
| " ,Grey | " " | " " " | 125 | '48 | F | F | D | D | B | A | A | A | A | A | A | A | A | A | A | A | – | F | A [6] | B |
| Harlach | | | 143 | '48 | C | A | A | C | A | A | C | A | A | – | – | A | – | – | – | A | – | – | A [5] | A |
| Haveg 41 | Haveg Corp. | Phenolic type asbestos | 199 | 6/55 | B | D | D | D | A | A | C | A | A | A | A | A | A | A | A | A | A | C | | B |
| " 60 | " " | Furan asbestos | 197 | 6/55 | C | C | A | A | A | A | A | A | A | C | A | A | A | A | A | A | B | A | | A |
| " 1810 | " " | PVC | 200 | 6/55 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | | A |
| " 7710 | " " | Polyester fiberglas | 198 | 6/55 | C | B | A | A | A | A | A | A | A | A | A | A | B | B | A | A | A | A | | A |
| HFR Acid Proof Cement | Pa. Salt Co. | | 191 | 6/55 | D | A | A | F | A | A | A | A | A | A | A | A | A | A | A | A | A | D | | B |
| Hood Linings | | | 132 | '48 | B | B | B | A | A | A | B | – | A | B | A | A | A | A | A | A | – | B | A [6] | A |
| Hylene Tm,ECD 154 | DuPont | Isocyanate-polyurethane | 247 | 8/58 | F | F | B | F | A | C | A | A | A | A | A | A | C | A | A | B | B | F | | B |
| Hypalon | Wilbur & Williams Co. | Rubber based paint | 236 | 2/58 | E | C | B | A | B | B | B | B | A | B | F | F | A | F | F | F | F | F | | D |
| Hypon 32 | Hodges Chem.Co. | Epoxy coating | 263 | 3/59 | C | B | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | C | | A |
| " 75 | " " " | " " | 264 | 3/59 | C | C | B | A | A | A | A | A | A | C | A | A | A | A | A | A | A | C | | A |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ifco Bate | Indust. Finishes Co. | Coating | 249 | 10/58 | F | F | C | C | A | B | F | A | B | B | A | A | B | B | A | B | B | F | | C |
| Ifco Grey Catalytic | " " | " | 246 | 8/58 | F | F | F | F | D | D | F | B | C | C | A | F | F | F | F | F | F | F | | E |
| Insul-Mastic | Tech. Paper Co. | | 116 | '48 | B | D | A | C | – | – | A | A | A | A | A | – | F | F | A | B | B | B | | C |
| " " Vinylin | " " " | Vinylin paper | 117 | '48 | F | D | C | C | C | A | F | A | A | A | A | A | F | F | A | A | A | F | | C |
| Interchem 4A | Interchem. Co. | Baked phenolic coating | 119 | 1/51 | A | A | A | B | – | – | F | A | A | A | A | A | A | A | A | A | – | A | | A |
| " " Special | " " | Baked coating | 37 | 10/52 | A | B | A | B | A | A | F | A | A | A | A | A | B | B | A | A | A | A | | A |
| Interchem 4A Special | Rheem Mfg. | Epoxy-phenolic | 99 | 6/50 | A | B | A | C | A | A | D | A | A | A | A | A | A | B | B | A | A | A | | A |
| Interchem 4A White | Interchem. Co. | PVC coating | 128 | '50 | A | B | A | A | B | A | A | A | A | B | A | B | F | F | F | E | – | A | A [3] | B |
| Interchem 4A Drum Lining | " " | Phenolic coating | 229 | 2/57 | B | B | A | A | A | A | F | A | A | A | A | A | A | A | A | A | A | B | | A |
| Interchem 4A Shock Resistant | " " | " " | 232 | 2/57 | F | B | A | F | A | A | F | A | A | B | A | A | A | A | A | A | A | F | | B |
| Interchem 4A | " " | " " | 57 | 8/53 | A | B | A | B | A | A | F | A | A | A | A | A | A | A | A | A | A | A | | A |
| " " | " " | " " | 86 | '48 | F | F | B | A | A | A | B | – | – | – | – | – | A | – | A | – | A | – | | B |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Irvington LF Black | Irv. Div.,3M | Coating | 74 | 4/54 | A | B | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | B | | A |
| Irvington 1F Black | | " | 77 | 4/54 | A | F | A | A | A | A | A | A | A | A | A | A | B | A | A | A | A | B | | A |
| Joanna 101 | Dunn Edwards Corp. | Adhesive | 155 | 8/54 | F | F | D | F | C | D | D | B | C | B | B | B | F | F | F | F | F | F | | D |
| Kaykor Fligid F92,Type 1 | Don Golden Plastics | PVC Sheet | 243 | 7/58 | B | B | A | B | A | F | B | A | A | A | A | A | F | F | F | F | F | D | | C |
| Kaykor L-10 | " " | Plasticized PVC sheet | 244 | 7/58 | F | A | A | A | A | A | C | A | A | A | A | A | F | F | B | C | C | F | | B |
| " F-92 Type 1 | " " | Laminated PVC sheet | 245 | 7/58 | A | A | A | A | A | A | A | A | A | A | A | A | B | B | A | B | B | A | | A |
| Kerostal 181 | | | 83 | 6/54 | B | F | A | F | B | F | F | A | A | A | A | A | F | F | A | C | C | C | | C |
| " 191 | | | 81 | 6/54 | F | F | A | D | A | B | F | A | A | A | A | A | F | F | A | A | A | F | | C |
| Koroseal Tile | Goodrich Rub. | PVC | 17 | 7/51 | C | D | B | C | B | B | A | – | – | A | B | A | B | B | A | B | B | C | | B |
| " " | " " | PVC | 103 | '49 | B | B | B | B | A | B | – | – | – | A | A | A | A | A | A | A | A | B | | A |
| " | " " | PVC | 142 | 7/48 | B | A | – | – | A | A | A | – | – | – | – | – | A | – | – | – | – | – | | A |
| Lab Clothing L-509 | Tech.Paper Corp. | Coated paper | 7 | 12/50 | F | E | B | E | E | A | F | A | A | A | A | A | D | B | A | A | A | F | | C |
| Lamidall | Woodall Industries | Phenolic urea sheet | 130 | '49 | A | B | A | B | A | A | B | A | A | A | A | A | A | A | A | A | – | C | A[3] | A |

| TRADE NAME | VENDOR | GENERIC TYPE | TEST NO. | TEST DATE | Sulfuric Acid 95% | Nitric Acid 70% | Hydrochloric Acid 36% | Hydrofluoric Acid 48% | Phosphoric Acid 85% | Acetic Acid 99% | Sodium Hydroxide | Sodium Carbonate | Ammonium Hydroxide | Chlorox | Gasoline | Ethyl Alcohol | Acetone | Ethyl Acetate | Carbon Tetrachloride | Benzene | Toluene | Chromic-sulfuric cleaning sol'n | Other | AVERAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lastadek #6 | United Gilsonite Labs | | 227 | 10/56 | F | F | D | F | F | D | F | A | A | A | A | A | F | F | F | F | F | F | | D |
| Lead #4 | Nat.Lead Co. | Lead base coating | 124 | '49 | B | C | A | B | A | A | A | A | A | A | A | A | A | A | A | A | - | B | A [1] | A |
| Lennard Plastic | Montacatini | Molded shapes | 237 | 5/58 | F | F | A | B | A | A | A | - | A | A | - | - | A | A | A | A | A | F | | B |
| Linoleum | Pabco | Asphalt tile | 146 | '48 | F | F | - | - | F | D | D | - | - | - | - | D | - | - | - | F | - | - | | E |
| Masonite,black | Masonite Corp. | Treated pressed wood sheet | 32 | 3/52 | F | F | A | A | B | A | F | A | A | A | A | A | A | A | A | A | A | F | | B |
| 3M Safety wall | Minn.Min.& Mfg. Co. | | 133 | 9/51 | C | C | A | B | - | - | C | A | - | A | - | A | A | A | C | - | - | C | | B |
| Monsanto M-1000 | Monsanto Chem. | PVC-Butyral | 209 | 7/55 | F | F | B | B | F | A | A | A | A | A | A | A | A | A | A | A | A | F | | B |
| Mylar 300A | DuPont | Polyester | 193 | 6/55 | C | A | A | A | A | A | C | A | A | A | A | A | A | A | A | A | A | C | | A |
| " 500A | " | " | 195 | " | C | A | A | A | A | A | C | A | A | A | A | A | A | A | A | A | A | C | | A |
| " 500D | " | " | 194 | " | C | A | A | A | A | A | C | A | A | A | A | A | A | A | A | A | A | C | | A |
| " 750D | " | " | 196 | " | C | A | A | A | A | A | C | A | A | A | A | A | A | A | A | A | A | C | | A |
| Nalgene PR | Nalge Co. | Polypropylene molded shapes | 238 | 6/58 | A | A | A | A | A | A | A | A | A | A | A | A | B | A | A | A | A | A | | A |
| Neoprene 100 | Carboline Co. | Neoprene coating | 158 | 8/54 | C | F | A | A | B | A | A | A | A | A | A | A | C | C | C | C | C | C | | B |

| TRADE NAME | VENDOR | GENERIC TYPE | TEST NO. | TEST DATE | Sulfuric Acid 95% | Nitric Acid 70% | Hydrochloric Acid 36% | Hydrofluoric Acid 48% | Phosphoric Acid 85% | Acetic Acid 99% | Sodium Hydroxide | Sodium Carbonate | Ammonium Hydroxide | Chlorox | Gasoline | Ethyl Alcohol | Acetone | Ethyl Acetate | Carbon Tetrachloride | Benzene | Toluene | Chromic-sulfuric cleaning sol'n | Other | AVERAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Novoply "A" | Pac.Coast Plywood | Treated plywood sheet | 30 | 10/51 | F | F | F | F | F | A | F | – | A | A | – | – | A | A | A | A | A | F | | C |
| Permacel P-252 | Permacel Tape Co. | Polyester tape | 192 | 6/55 | F | F | A | C | A | A | C | A | A | A | A | A | A | A | A | A | A | F | | B |
| P.C.P.C.500, clear | Pac.Coast Plywood Co. | Coating | 121 | 2/52 | D | F | A | B | A | A | A | A | B | A | A | A | F | F | A | F | – | D | A [1] | C |
| " grey | " | " | 120 | " | B | F | B | C | A | A | F | A | A | A | A | A | F | F | A | F | – | B | A [1] | C |
| " 506, grey | " | " | 122 | " | D | D | A | B | A | A | D | A | A | B | A | A | F | F | A | F | – | D | F [1] | C |
| Pabco Epon 7318 | Pabco Prod. | Epoxy | 250 | 10/58 | F | F | B | D | F | A | A | A | A | A | A | A | B | A | A | A | A | F | | B |
| Pac. VX 273B | Pac.Varnish | | 62 | 9/53 | D | F | F | B | C | B | A | A | B | A | A | A | B | A | A | A | A | D | | B |
| Pac.R 971 (VX 273P) | Pac.Pt.& Varnish | Phenolic & Epon | 69 | 3/54 | A | F | A | B | A | A | A | A | A | A | A | A | B | A | A | A | A | B | | A |
| Pac.R 970 (240970B) | " | " " | 70 | 3/54 | A | F | A | B | A | A | A | A | A | A | A | A | B | A | A | A | A | C | | B |
| Panelyte 170 | Panelyte Div., St.Regis Paper | Phenolic molded sheet | 134 | '49 | B | B | B | F | B | A | F | A | A | B | A | A | A | A | A | A | – | B | A [3] | B |
| " 190 | | " " | 136 | '49 | B | C | B | C | B | C | C | B | B | A | A | – | C | A | A | A | – | B | A [3,7] | B |
| " 260D | " " " | " " | 140 | '49 | C | B | A | F | A | B | B | – | A | A | A | A | – | A | A | – | – | – | | B |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Panelyte 460 | Panelyte Div. St.Regis Paper | Phenolic molded sheet | 138 | '49 | E | E | B | B | A | B | A | A | – | – | A | B | A | A | A | A | – | – | A [1,5,8] | B |
| " 920 | " " | " " | 137 | '49 | A | C | A | B | A | A | A | A | A | A | A | A | A | A | A | A | – | B | A [3] | A |
| " 980 | " " | " " | 135 | '49 | A | C | A | C | A | A | C | A | A | B | A | A | A | A | A | A | – | A | A [3] | A |
| Penkote | Peninsular Chem.Prod. | Coating | 5 | 8/50 | B | F | A | C | B | A | C | A | A | B | A | A | F | F | A | E | – | B | A [1] | C |
| Pennsalt Furan Cement "C" | Penna.Salt Co. | Furan mastic | 201 | 7/55 | F | F | D | B | A | A | A | A | A | A | A | C | F | C | A | C | C | F | | C |
| Pennsalt Pen-chlor Cement | " " | Mastic | 202 | " | D | D | D | E | B | A | A | A | A | A | A | A | B | A | A | A | A | D | | B |
| Pennsalt Pen-chlor acid-proof cement | " " | Mastic | 203 | " | A | A | A | E | A | A | A | A | A | A | A | A | A | A | A | A | A | A | | A |
| Pennsalt PRF cement | " " | Mastic | 204 | " | C | D | B | B | A | A | D | B | B | B | B | C | D | D | A | A | A | C | | B |
| Pennsalt Aspht cement | " " | Mastic | 205 | " | F | D | B | B | D | A | F | D | A | B | C | C | F | D | A | A | A | F | | C |
| Pennsalt HF cement | " " | Mastic | 206 | " | B | D | A | A | A | A | F | B | B | B | A | D | F | D | A | A | A | B | | B |
| Penton 1215 | Hercules Powder Co. | Chlorinated poly-ether molded shapes | 234 | 2/57 | A | A | A | A | A | A | A | A | A | A | A | A | B | B | A | A | A | A | | A |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Permaflex | Ayres | | 266 | 3/29 | F | F | A | B | F | D | A | A | A | A | A | A | D | D | A | B | B | F | | C |
| Phenoline 300 | Carboline Co. | Phenolic coating | 148B | 7/54 | A | B | A | B | A | B | A | A | A | A | A | A | B | B | A | A | A | B | | A |
| " 301 | " " | " " | 214 | 2/56 | F | F | A | F | F | B | F | A | B | F | A | A | A | A | A | A | A | F | | C |
| " 305-0 | " " | " " | 212 | 2/56 | E | F | A | C | A | A | B | B | – | C | B | A | B | A | A | A | A | E | | B |
| Pioneer | Pioneer Chem. & Mfg.Co. | " " | 9 | 12/50 | F | F | A | A | C | B | F | B | B | F | A | A | F | F | A | A | A | F | | C |
| " | " " | " " | 118 | 12/50 | F | B | A | A | C | A | F | B | B | B | A | A | F | F | A | A | A | F | | C |
| Plasite 80 | Wisc.Protec-tive Coating Co. | Coating | 178 | 12/54 | A | F | A | A | A | A | A | A | A | A | A | B | B | B | B | A | A | C | | B |
| " 3055 | " " | Phenolic coating | 176 | 12/54 | A | B | A | B | A | A | D | A | A | A | A | A | A | A | A | A | A | A | | A |
| " 5122, Black | " " | Coating | 184 | 12/54 | A | F | A | A | A | B | A | A | A | C | A | A | A | A | A | A | A | D | | B |
| " 7100 | " " | " | 179 | 12/54 | A | C | A | D | A | A | A | A | A | A | A | C | B | A | A | A | A | D | | B |
| " 7111 | " " | " | 180 | 11/54 | C | F | B | B | C | B | C | A | A | B | A | B | B | A | A | A | A | C | | B |
| " 7122 | " " | " | 186 | 1/55 | A | A | A | C | A | B | A | A | A | A | A | A | A | A | A | A | A | C | | A |
| " 7122 | " " | " | 177 | 12/54 | A | F | A | C | A | A | A | A | A | A | A | B | B | B | A | A | A | D | | B |
| " 7122-H | " " | " | 239 | 7/58 | F | F | A | D | B | A | A | B | A | B | A | B | B | B | A | A | A | F | | C |
| " 7199 | " " | " | 251 | 10/58 | F | D | B | D | D | F | D | D | A | A | C | A | F | F | D | D | D | F | | D |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Plastibond, Green | | | 226 | 5/56 | E | D | A | B | A | A | F | D | A | A | A | A | F | F | A | F | F | E | | C |
| Plastisol | Barber-Webb | PVC coating | 182 | 12/54 | A | A | A | A | A | A | A | A | A | C | A | A | D | D | A | D | D | A | | B |
| " Green | Crown Chem. | PVC coating | 183 | 12/54 | D | E | E | E | A | A | B | B | A | B | A | A | F | F | D | F | F | B | | C |
| Plywood | Pac.Plywood | Wood sheet | 29 | 10/51 | F | F | F | F | F | A | F | – | A | A | – | – | A | A | A | A | A | F | | C |
| Polyclad 933-3 | Carboline Co. | PVC & $TiO_2$ coating | 169 | 10/54 | A | E | E | A | A | A | A | A | A | E | A | A | F | F | D | F | F | A | | C |
| " 933 | " " | " " " | 157 | 8/54 | A | F | F | D | A | A | A | A | A | A | A | A | F | F | A | F | F | A | | C |
| " 955 | " " | " " " | 156 | 8/54 | A | A | A | A | A | A | A | A | A | A | A | A | D | D | D | D | F | A | | B |
| Polyethylene Grease | | Low mol.wt. Polyethylene | 38 | 10/52 | C | C | F | A | A | A | B | F | A | A | F | F | F | F | F | F | F | F | | D |
| Polyethylene Wax, Grade 7 | | Polyethylene | 39 | 11/52 | A | A | A | A | A | A | A | A | — | – | B | A | A | A | B | A | A | C | | A |
| Polythene | | | 149 | 7/54 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | B | A | | A |
| Polyvinylchloride | Pac.Tank | PVC | 73 | 4/54 | A | F | A | A | A | A | A | A | A | A | A | A | B | B | A | A | A | B | | A |
| Porcelain Enamel | Cal.Metal Enam.Co. | Porcelain | 24 | 8/51 | F | F | F | F | F | D | D | C | B | A | A | A | A | B | A | A | C | F | | C |
| Preco Ceramix | | | 235 | 1/58 | F | F | A | D | F | A | A | A | A | A | A | A | A | A | A | A | A | F | | B |
| Quarry Tile | Stiehl & Co. | | 167 | 9/54 | B | A | B | F | D | B | B | A | A | A | A | A | A | A | A | A | A | B | D [9] | B |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Quartex, Clear | United Labs. | Silicate coating | 175 | 11/54 | F | F | F | F | F | F | F | - | A | A | A | A | A | A | A | A | A | F | | C |
| " Green | " " | " " | 174 | 11/54 | F | F | F | F | F | D | D | A | A | A | A | A | D | D | A | D | D | F | | D |
| " Red | " " | " " | 172 | 11/54 | F | F | F | F | F | F | D | A | A | A | A | A | D | D | A | D | D | F | | D |
| Resin R 280 | | Epoxy-glass | 50 | 6/53 | B | E | B | E | C | C | D | A | C | B | A | A | A | A | A | A | A | B | | B |
| " " | | " " | 49 | 7/53 | C | E | B | E | B | B | F | B | C | A | A | A | A | A | A | A | A | B | | B |
| " " | | " " | 48 | 7/53 | B | C | B | F | A | A | F | A | B | A | A | A | A | A | A | A | A | B | | B |
| " " | | " " | 42 | 3/53 | C | D | A | B | B | B | C | A | A | A | F | A | F | F | A | F | A | D | | C |
| " 331 | | " " | 46 | 7/53 | A | C | D | F | A | A | D | A | A | A | A | A | A | A | A | A | A | B | | B |
| " 364 | | " " | 47 | 7/53 | D | D | A | D | A | A | D | D | A | A | A | A | A | A | A | A | A | D | | B |
| " " | | " " | 45 | 7/53 | F | F | A | F | C | A | D | A | A | A | B | A | B | B | B | B | B | - | | C |
| Rigidon | Heil Process Eqpt. Corp. | " " | 51 | 8/53 | A | A | A | B | A | A | A | A | A | A | A | A | A | A | A | A | A | A | | A |
| Rigivin A | " " | PVC | 64 | 10/53 | A | A | A | A | A | A | A | A | A | A | A | A | B | B | A | A | A | A | | A |
| " B | " " | PVC | 63 | 10/53 | A | A | A | A | A | A | A | A | A | A | A | A | B | B | A | A | A | A | | A |
| Rustoleum 769 | Rust-Oleum Corp. | Oil base | 33 | 3/52 | D | F | D | B | F | F | F | B | F | F | F | B | F | F | C | C | F | F | | E |
| " X-59 | " " | " " | 34 | 3/52 | E | C | D | C | C | C | F | B | C | C | A | B | B | F | A | B | B | E | | C |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sanitile | Master Mechanics Co. | | 41 | 1/53 | F | F | A | A | B | D | F | B | A | A | – | F | F | A | A | F | F | F | | D |
| Scotch Tape 471 | 3M | Tape | 163 | 9/54 | B | C | A | A | A | A | A | A | A | A | A | A | A | B | A | A | A | F | | A |
| " " 470 | " | " | 162 | 9/54 | A | C | A | A | A | A | A | A | A | A | A | A | A | B | A | B | B | B | | A |
| " " " | " | Adhesive | 164 | 9/54 | E | F | A | E | A | E | E | A | A | F | F | A | F | F | D | F | F | F | | D |
| " " 471 | " | " | 165 | 9/54 | A | F | E | E | A | A | A | D | A | E | F | B | F | F | B | F | F | F | | D |
| Sika, Base | Sika Chem. Corp. | Coating | 108 | 3/51 | A | C | C | F | C | A | F | A | A | E | A | A | F | F | A | F | F | A | | C |
| " Base & release | " " | " | 109 | 3/51 | A | D | A | C | F | B | A | A | A | A | A | A | F | F | A | F | F | A | | C |
| " Base & release & strip | " " | " | 112 | 3/51 | F | F | A | A | F | A | B | A | A | A | A | A | F | F | A | F | F | F | | C |
| " Release | " " | " | 129 | 3/51 | F | F | F | F | F | F | F | F | F | F | A | A | F | F | D | A | A | F | | E |
| " Release & base & strip | " " | " | 115 | 3/51 | D | C | A | B | B | A | A | B | B | A | A | A | F | A | F | A | F | E | | C |
| " Base & strip | " " | " | 113 | 3/51 | F | F | B | B | F | B | B | B | A | B | A | A | F | C | A | C | C | F | | C |
| " Release & base | " " | " | 114 | 3/51 | A | A | A | F | A | A | A | A | F | A | F | A | F | F | B | F | F | A | | C |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sika, Release & strip | Sika Chem. Corp. | Coating | 111 | 3/51 | F | F | A | C | F | A | C | A | A | A | A | A | F | F | A | F | F | F | | C |
| " Strip | " " | " | 110 | 3/51 | F | F | A | C | A | C | F | B | C | C | C | C | A | A | F | F | F | F | | D |
| Silco | Mitchel Bradstreet Chem.Co. | | 19 | 7/51 | A | A | B | F | A | A | A | A | A | A | A | A | A | A | A | A | A | A | | A |
| " | " " | | 102 | 7/51 | A | A | B | F | A | A | A | A | A | A | A | A | A | A | A | A | A | A | | A |
| Sinclair Stuc-O-Life 475 | Sinclair Pt.Co. | Acrylic coating | 208 | 7/55 | F | F | D | D | F | F | A | A | A | A | B | B | D | D | D | D | D | F | | D |
| " 487 | " " | " " | 210 | 7/55 | F | F | F | F | F | F | D | A | A | A | A | D | F | F | F | F | F | F | | E |
| " 489 | " " | " " | 207 | 7/55 | F | F | F | F | F | A | A | A | A | A | A | A | D | D | D | D | D | F | | C |
| Single Wall | | | 123 | 6/51 | C | C | A | A | C | A | A | – | – | A | A | A | C | C | A | C | C | – | D [8,1] | B |
| Ski Dope | Ski Hut | Beeswax coating | 131 | '50 | F | F | F | F | F | B | F | A | B | D | A | A | A | A | B | B | – | F | A [3] | C |
| Stainless Steel Paint | | Coating | 139 | '50 | D | F | F | F | – | A | F | F | – | C | A | – | A | A | – | A | – | – | | C |
| Styrokote Sty 1200 | Protective Coatings,Inc. | Polystyrene coating | 240 | 7/58 | F | C | A | B | D | B | A | A | A | A | A | A | D | A | A | A | A | F | | B |
| Synlith,White | | | 225 | 5/56 | F | D | D | D | D | A | F | A | A | A | A | A | F | F | A | F | F | F | | D |
| Synthetisene 100A | Interchem.Co. | Epon-phenolic coating | 76 | 4/54 | A | E | A | B | A | A | A | A | A | A | A | A | B | A | A | A | A | B | | A |
| Tarset | Pittsburg Coke & Chem. | Asphalt coating | 185 | '51 | A | F | A | D | D | A | A | A | A | A | A | A | F | F | A | A | A | F | | B |

| TRADE NAME | VENDOR | GENERIC TYPE | TEST NO. | TEST DATE | Sulfuric Acid 95% | Nitric Acid 70% | Hydrochloric Acid 36% | Hydrofluoric Acid 48% | Phosphoric Acid 85% | Acetic Acid 99% | Sodium Hydroxide | Sodium Carbonate | Ammonium Hydroxide | Chlorox | Gasoline | Ethyl Alcohol | Acetone | Ethyl Acetate | Carbon Tetrachloride | Benzene | Toluene | Chromic-sulfuric cleaning sol'n | Other | AVERAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Teflon Adhesive | | | 224 | 5/56 | F | F | F | F | A | A | F | F | F | F | A | A | A | A | A | A | A | F | | C |
| " 851-202 Enamel | DuPont | Polyfluorethane coating | 211 | 2/56 | F | B | A | A | B | A | A | A | A | B | A | A | A | A | A | A | A | F | | B |
| " Coating | Glaco | " " | 267 | 3/59 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | | A |
| Textolite | G.E. | | 35 | 4/52 | D | D | B | D | C | B | B | A | A | A | A | A | A | A | A | A | A | D | | B |
| Tygon K | U.S.Stoneware | PVC coating | 58 | 8/53 | A | A | A | A | A | A | A | A | A | A | A | A | B | B | B | B | B | A | | A |
| Unican U-4 | Unican Plastics | Coating | 252 | 12/58 | F | F | D | F | F | A | F | D | C | A | A | A | F | F | D | D | D | F | | D |
| Versatile 3002 | Plasti-Glaze Co. | Lacquer | 18 | 7/51 | E | E | B | E | D | A | E | A | A | A | A | A | A | A | A | A | A | E | | B |
| " " | " " | " | 104 | 12/51 | F | F | A | C | C | A | F | A | A | A | A | A | A | A | A | A | A | F | | B |
| Vinylastic Wallsheet | Dunn Edwards | PVC & fabric | 154 | 8/54 | A | C | A | A | A | A | A | A | A | A | A | A | B | B | A | A | A | B | | A |
| Vinyl Insul-Mastic | Western Asbestos | PVC & asbestos | 8 | 12/50 | B | B | A | B | - | - | A | A | - | - | A | A | F | F | A | F | F | F | | C |
| Vinylite sheet | Bakelite Div. Union Carbide | PVC & plasticizer | 105 | 12/51 | B | B | A | A | A | A | A | A | A | A | A | A | B | B | A | A | A | B | | A |
| Vinylon-surf white | Ernie Kapp Paint Co. | PVC coating | 269 | 4/59 | F | F | A | D | A | B | F | B | A | A | A | A | F | F | A | F | F | F | | C |
| WPC HT 22 | Hamilton | Coating | 231 | 2/57 | B | F | B | D | A | B | A | A | A | A | A | A | B | B | A | B | B | D | | B |
| Wespon white | Western Fibrous Glass Products | Epoxy coating | 217 | 3/56 | F | F | C | C | F | A | A | A | A | A | A | A | F | F | A | F | F | F | A [10] | C |

| TRADE NAME | VENDOR | GENERIC TYPE | TEST NO. | TEST DATE | Sulfuric Acid 95% | Nitric Acid 70% | Hydrochloric Acid 36% | Hydrofluoric Acid 48% | Phosphoric Acid 85% | Acetic Acid 99% | Sodium Hydroxide | Sodium Carbonate | Ammonium Hydroxide | Chlorox | Gasoline | Ethyl Alcohol | Acetone | Ethyl Acetate | Carbon Tetrachloride | Benzene | Toluene | Chromic-sulfuric cleaning sol'n | Other | AVERAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wespon white | Western Fibrous Glass Products | Epoxy coating | 218 | 3/56 | F | F | C | C | F | A | A | A | A | A | A | A | F | F | A | F | F | F | | D |
| West fast dry sealer | West Disinfectant Co. | Coating | 20 | 8/51 | F | D | A | A | A | A | F | – | A | B | – | A | D | F | B | D | F | F | | C |
| West Lasting-coat | " " | " | 21 | 8/51 | E | D | A | A | A | A | B | – | A | A | – | A | B | D | A | D | D | F | | B |
| West Penetrating Sealer | " " | " | 22 | 8/51 | D | B | A | A | A | A | F | – | A | B | – | A | D | D | A | D | D | F | | C |
| " "waxed" | " " | " | 23 | 8/51 | E | B | A | A | B | A | F | – | A | A | – | A | D | D | D | D | D | F | | C |
| Wetmore Hodges C-77 | Hodges Chem.Co. | Epoxy coating | 220 | 4/56 | F | F | D | F | F | F | A | A | A | A | A | A | A | A | A | A | A | F | | C |
| " C-78 | " " " | " " | 219 | 4/56 | C | D | D | D | A | B | A | A | A | A | A | A | A | A | A | A | A | E | | B |
| Wilhold Flash Glue | Acorn Adhesives | | 161 | 8/54 | F | F | D | A | F | A | F | B | B | D | A | F | F | F | F | F | F | F | | E |

1 Phenol
2 Water
3 Ether-Ethyl
4 Vac Pump Oil
5 Sodium Chloride
6 Isopropyl ether
7 Acetaldehyde
8 Hexone
9 Machine Oil
10 Butyl Alcohol

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