

# Urethane Interior Coating Chemical Resistance Chart

Ocal®

| Solutions                                  | Conc. | Temp. | Recommended Exposure   |     |     | Solutions                         | Conc.      | Temp. | Recommended Exposure   |     |     |
|--------------------------------------------|-------|-------|------------------------|-----|-----|-----------------------------------|------------|-------|------------------------|-----|-----|
|                                            |       |       | Splashing Liquid Fumes |     |     |                                   |            |       | Splashing Liquid Fumes |     |     |
| Acetic Acid                                | 10%   | 75    | yes                    | no  | yes | Lead Plating Solution             | Any        | 75    | yes                    | no  | yes |
| Acid Copper Plating Solution               | Any   | 75    | yes                    | no  | yes | Malic Acid                        | Any        | 75    | yes                    | no  | yes |
| Alkaline Cleaners                          | Any   | 75    | yes                    | no  | yes | Methyl Alcohol                    | Any        | 75    | yes                    | no  | yes |
| Aluminum Chloride                          | Sat'd | 75    | yes                    | no  | yes | Mineral Oils                      | Any        | 75    | yes                    | yes | yes |
| Aluminum Sulfate                           | Sat'd | 75    | yes                    | no  | yes | Nickel Acetate                    | Sat'd      | 75    | yes                    | no  | yes |
| Alums                                      | Sat'd | 75    | yes                    | no  | yes | Nickel Plating Solution           |            | 75    | yes                    | no  | yes |
| Ammonium Chloride                          | Sat'd | 75    | yes                    | no  | yes | Nickel Salts                      | Sat'd      | 75    | yes                    | no  | yes |
| Ammonium Hydroxide                         | 28%   | 75    | yes                    | no  | yes | Nitric Acid                       | 35%        | 75    | yes                    | no  | yes |
| Ammonium Hydroxide                         | 10%   | 75    | yes                    | no  | yes | Nitric Acid                       | 40%        | 75    | yes                    | no  | yes |
| Ammonium Sulfate                           | Sat'd | 75    | yes                    | no  | yes | Nitric Acid                       | 60%        | 75    | yes                    | no  | yes |
| Ammonium Thiocyanate                       | Sat'd | 75    | yes                    | no  | yes | Nitric Acid/<br>Hydrofluoric Acid | 15%<br>4%  | 75    | yes                    | no  | yes |
| Amyl Alcohol                               | Any   | 75    | yes                    | yes | yes | Nitric Acid/<br>Sodium Dichromate | 16%<br>13% | 75    | yes                    | no  | yes |
| Arsenic Acids                              | Any   | 75    | yes                    | no  | yes | Water                             | 71%        |       |                        |     |     |
| Barium Sulfide                             | Sat'd | 75    | yes                    | no  | yes | Oleic Acid                        | Any        | 75    | yes                    | no  | yes |
| Black Liquor                               | Sat'd | 75    | yes                    | no  | yes | Oxalic Acid                       | Sat'd      | 75    | yes                    | no  | yes |
| Benzoic Acid                               | Sat'd | 75    | yes                    | no  | yes |                                   | Any        | 75    | yes                    | no  | yes |
| Brass Plating Solution                     | Any   | 75    | yes                    | no  | yes | Phenol                            | Sat'd      | 75    | yes                    | no  | yes |
| Bromine Water                              | Sat'd | 75    | yes                    | no  | yes | Phosphoric Acid                   | 75%        | 75    | yes                    | no  | yes |
| Butyl Alcohol                              | Any   | 75    | yes                    | no  | yes | Phosphoric Acid                   | 85%        | 75    | yes                    | no  | yes |
| Cadmium Plating Solution                   | Any   | 75    | yes                    | no  | yes | Potassium Acid Sulfate            | Sat'd      | 75    | yes                    | no  | yes |
| Calcium Bisulfite                          | Any   | 75    | yes                    | no  | yes | Potassium Antimonate              | Sat'd      | 75    | yes                    | no  | yes |
| Calcium Chloride                           | Sat'd | 75    | yes                    | no  | yes | Potassium Bisulfite               | Sat'd      | 75    | yes                    | no  | yes |
| Calcium Hypochlorite                       | Sat'd | 75    | yes                    | no  | yes | Potassium Chloride                | Sat'd      | 75    | yes                    | no  | yes |
| Carbonic Acid                              | Sat'd | 75    | yes                    | no  | yes | Potassium Cuprocyanide            | Sat'd      | 75    | yes                    | no  | yes |
| Casein                                     | Sat'd | 75    | yes                    | no  | yes | Potassium Cyanide                 | Sat'd      | 75    | yes                    | no  | yes |
| Castor Oil                                 | Any   | 75    | yes                    | yes | yes | Potassium Dichromate              | Sat'd      | 75    | yes                    | no  | yes |
| Caustic Soda                               | 35%   | 75    | yes                    | no  | yes | Potassium Hypochlorite            | Sat'd      | 75    | yes                    | no  | yes |
| Caustic Soda                               | 10%   | 75    | yes                    | no  | yes | Potassium Sulfide                 | Sat'd      | 75    | yes                    | no  | yes |
| Caustic Potash                             | 35%   | 75    | yes                    | no  | yes | Potassium Thiosulfate             | Sat'd      | 75    | yes                    | no  | yes |
| Caustic Potash                             | 10%   | 75    | yes                    | no  | yes | Propyl Alcohol                    | Sat'd      | 75    | yes                    | no  | yes |
| Chlorine Water                             | Sat'd | 75    | yes                    | no  | yes | Rhodium Plating Solution          | Sat'd      | 75    | yes                    | no  | yes |
| Chromium Plating Solution                  | Any   | 75    | yes                    | no  | yes | Silver Plating Solution           | Sat'd      | 75    | yes                    | no  | yes |
| Citric Acid                                | Sat'd | 75    | yes                    | no  | yes | Soaps                             | Any        | 75    | yes                    | no  | yes |
| Copper Chloride (Cupric)                   | Sat'd | 75    | yes                    | no  | yes | Sodium Acid Sulfate               | Sat'd      | 75    | yes                    | no  | yes |
| Copper Cyanide Plating Sol<br>(High Speed) | Any   | 75    | yes                    | no  | yes | Sodium Antimonate                 | Sat'd      | 75    | yes                    | no  | yes |
| (with Alkali Cyanides)                     | Sat'd | 75    | yes                    | no  | yes | Sodium Bicarbonate                | Sat'd      | 75    | yes                    | no  | yes |
| Copper Sulfate                             | Sat'd | 75    | yes                    | no  | yes | Sodium Bisulfite                  | Sat'd      | 75    | yes                    | no  | yes |
| Cocoonut Oil                               | Sat'd | 75    | yes                    | yes | yes | Sodium Chloride                   | Sat'd      | 75    | yes                    | no  | yes |
| Cottonseed Oil                             | Sat'd | 75    | yes                    | yes | yes | Sodium Cyanide                    | Sat'd      | 75    | yes                    | no  | yes |
| Disodium Phosphate                         | Sat'd | 75    | yes                    | no  | yes | Sodium Dichromate                 | Sat'd      | 75    | yes                    | no  | yes |
| Ethyl Alcohol                              | Any   | 75    | yes                    | no  | yes | Sodium Hydroxide                  | 10%        | 75    | yes                    | no  | yes |
| Ethylene Glycol                            | Any   | 75    | yes                    | yes | yes | Sodium Hydroxide                  | 35%        | 75    | yes                    | no  | yes |
| Ferric Chloride                            | 45%   | 75    | yes                    | no  | yes | Sodium Hydroxide                  | 73%        | 75    | yes                    | no  | yes |
| Ferrous Sulfate                            | Sat'd | 75    | yes                    | no  | yes | Sodium Hypochlorite               | Sat'd      | 75    | yes                    | no  | yes |
| Fluoboric Acid                             | Any   | 75    | yes                    | no  | yes | Sodium Sulfide                    | Sat'd      | 75    | yes                    | no  | yes |
| Formaldehyde                               | 37%   | 75    | yes                    | no  | yes | Sodium Thiosulfate                | Sat'd      | 75    | yes                    | no  | yes |
| Formic Acid                                | 85%   | 75    | yes                    | no  | yes | Sulfuric Acid                     | 15%        | 75    | yes                    | no  | yes |
| Gallic Acid                                | Sat'd | 75    | yes                    | no  | yes | Sulfuric Acid                     | 50%        | 75    | yes                    | no  | yes |
| Glucose                                    | Any   | 75    | yes                    | yes | yes | Sulfuric Acid                     | 70%        | 75    | yes                    | no  | yes |
| Glue                                       | Any   | 75    | yes                    | no  | yes | Sulfuric Acid                     | 98%        | 75    | yes                    | no  | yes |
| Glycerine                                  | Any   | 75    | yes                    | yes | yes | Sulfurous Acid                    | 2%         | 75    | yes                    | no  | yes |
| Gold Plating Solution                      | Any   | 75    | yes                    | no  | yes | Sulfurous Acid                    | 6%         | 75    | yes                    | no  | yes |
| Hydrochloric Acid                          | 10%   | 75    | yes                    | no  | yes | Tannic Acid                       | Sat'd      | 75    | yes                    | no  | yes |
| Hydrochloric Acid                          | 21.5% | 75    | yes                    | no  | yes | Tartaric Acid                     | Sat'd      | 75    | yes                    | no  | yes |
| Hydrochloric Acid                          | 37.5% | 75    | yes                    | no  | yes | Tin Chloride Aqueous              | Sat'd      | 75    | yes                    | no  | yes |
| Hydrofluoric Acid                          | 4%    | 75    | yes                    | no  | yes | Tin Plating Solution              | Sat'd      | 75    | yes                    | no  | yes |
| Hydrofluoric Acid                          | 10%   | 75    | yes                    | no  | yes | Triethaneolamine                  | Sat'd      | 75    | yes                    | no  | yes |
| Hydrofluoric Acid                          | 48%   | 75    | yes                    | no  | yes | Trisodium Phosphate               | Sat'd      | 75    | yes                    | no  | yes |
| Hydrogen Peroxide                          | 30%   | 75    | yes                    | no  | yes | Water                             | Sat'd      | 75    | yes                    | no  | yes |
| Hydrogen Sulfide                           | Sat'd | 75    | yes                    | no  | yes | White Liquor                      |            | 75    | yes                    | no  | yes |
| Hydroquinone                               | Any   | 75    | yes                    | no  | yes | Zinc Plating Solution             |            | 75    | yes                    | no  | yes |
| Indium Plating Solution                    | Any   | 75    | yes                    | no  | yes | Zinc Sulfate                      | Sat'd      | 75    | yes                    | no  | yes |
| Lactic Acid                                | 50%   | 75    | yes                    | no  | yes |                                   |            |       |                        |     |     |
| Lactic Acid                                | Any   | 75    | yes                    | no  | yes |                                   |            |       |                        |     |     |

# PVC Coating Chemical Resistance Chart

| Solutions                    | Conc. Temp. |     | Recommended Exposure   |     |     | Solutions                         | Conc. Temp. |     | Recommended Exposure   |     |     |
|------------------------------|-------------|-----|------------------------|-----|-----|-----------------------------------|-------------|-----|------------------------|-----|-----|
|                              |             |     | Splashing Liquid Fumes |     |     |                                   |             |     | Splashing Liquid Fumes |     |     |
| Acetic Acid                  | 10%         | 120 | no                     | no  | no  | Malic Acid                        | Any         | 90  | yes                    | yes | yes |
| Acid Copper Plating Solution | 160         | yes | yes                    | yes |     | Methyl Alcohol                    | Any         | 90  | yes                    | yes | yes |
| Alkaline Cleaners            |             | 160 | yes                    | yes | yes | Mineral Oils                      | Any         | 90  | yes                    | yes | yes |
| Aluminum Chloride            | Sat'd       | 160 | yes                    | yes | yes | Nickel Acetate                    | Sat'd       | 160 | yes                    | yes | yes |
| Aluminum Sulfate             | Sat'd       | 160 | yes                    | yes | yes | Nickel Plating Solution           |             | 160 | yes                    | yes | yes |
| Alums                        | Sat'd       | 160 | yes                    | yes | yes | Nickel Salts                      | Sat'd       | 160 | yes                    | yes | yes |
| Ammonium Chloride            | Sat'd       | 160 | yes                    | yes | yes | Nitric Acid                       | 35%         | 120 | yes                    | no  | yes |
| Ammonium Hydroxide           | 28%         | 120 | yes                    | yes | yes | Nitric Acid                       | 40%         | 90  | yes                    | no  | yes |
| Ammonium Hydroxide           | 10%         | 120 | yes                    | yes | yes | Nitric Acid                       | 60%         | 120 | yes                    | no  | yes |
| Ammonium Sulfate             | Sat'd       | 160 | yes                    | yes | yes | Nitric Acid/<br>Hydrofluoric Acid | 15%         |     |                        |     |     |
| Ammonium Thiocyanate         | Sat'd       | 160 | yes                    | yes | yes |                                   | 4%          | 140 | yes                    | yes | yes |
| Amyl Alcohol                 | Any         | 90  | yes                    | yes | yes | Nitric Acid/<br>Sodium Dichromate | 16%         |     |                        |     |     |
| Arsenic Acids                | Any         | 150 | yes                    | yes | yes |                                   | 13%         | 130 | yes                    | yes | yes |
| Barium Sulfide               | Sat'd       | 120 | yes                    | yes | yes | Water                             | 71%         |     |                        |     |     |
| Black Liquor                 | Sat'd       | 90  | yes                    | yes | yes | Oleic Acid                        | Any         | 90  | yes                    | yes | yes |
| Benzoic Acid                 | Sat'd       | 160 | yes                    | yes | yes | Oxalic Acid                       | Sat'd       | 120 | yes                    | yes | yes |
| Brass Plating Solution       | Any         | 160 | yes                    | yes | yes |                                   | Any         | 90  | yes                    | yes | yes |
| Bromine Water                | Sat'd       | 120 | yes                    | yes | yes | Phenol                            | Sat'd       | 120 | no                     | no  | no  |
| Butyl Alcohol                | Any         | 90  | yes                    | yes | yes | Phosphoric Acid                   | 75%         | 150 | yes                    | yes | yes |
| Cadmium Plating Solution     | Any         | 150 | yes                    | yes | yes | Phosphoric Acid                   | 85%         | 120 | yes                    | yes | yes |
| Calcium Bisulfite            | Any         | 150 | yes                    | yes | yes | Phosphoric Acid                   | 85%         | 160 | yes                    | yes | yes |
| Calcium Chloride             | Sat'd       | 160 | yes                    | yes | yes | Potassium Acid Sulfate            | Sat'd       | 150 | yes                    | yes | yes |
| Calcium Hypochlorite         | Sat'd       | 120 | yes                    | yes | yes | Potassium Antimonate              | Sat'd       | 150 | yes                    | yes | yes |
| Carbonic Acid                | Sat'd       | 160 | yes                    | yes | yes | Potassium Bisulfite               | Sat'd       | 90  | yes                    | yes | yes |
| Casein                       | Sat'd       | 90  | yes                    | yes | yes | Potassium Chloride                | Sat'd       | 160 | yes                    | yes | yes |
| Castor Oil                   | Any         | 90  | yes                    | yes | yes | Potassium Cuprocyanide            | Sat'd       | 150 | yes                    | yes | yes |
| Caustic Soda                 | 35%         | 120 | yes                    | yes | yes | Potassium Cyanide                 | Sat'd       | 160 | yes                    | yes | yes |
| Caustic Soda                 | 10%         | 150 | yes                    | yes | yes | Potassium Dichromate              | Sat'd       | 160 | yes                    | yes | yes |
| Caustic Potash               | 35%         | 120 | yes                    | yes | yes | Potassium Hypochlorite            | Sat'd       | 90  | yes                    | no  | yes |
| Caustic Potash               | 10%         | 150 | yes                    | yes | yes | Potassium Sulfide                 | Sat'd       | 150 | yes                    | yes | yes |
| Chlorine Water               | Sat'd       | 90  | yes                    | yes | yes | Potassium Thiosulfate             | Sat'd       | 150 | yes                    | yes | yes |
| Chromium Plating Solution    | Any         | 150 | yes                    | yes | yes | Propyl Alcohol                    | Sat'd       | 150 | yes                    | yes | yes |
| Citric Acid                  | Sat'd       | 160 | yes                    | yes | yes | Rhodium Plating Solution          | Sat'd       | 150 | yes                    | yes | yes |
| Copper Chloride (Cupric)     | Sat'd       | 160 | yes                    | yes | yes | Silver Plating Solution           | Sat'd       | 150 | yes                    | yes | yes |
| Copper Cyanide Plating Sol   | Any         | 160 | yes                    | yes | yes | Soaps                             | Any         | 90  | yes                    | yes | yes |
| (High Speed)                 | Any         | 180 | yes                    | yes | yes | Sodium Acid Sulfate               | Sat'd       | 160 | yes                    | yes | yes |
| (with Alkali Cyanides)       | Sat'd       | 160 | yes                    | yes | yes | Sodium Antimonate                 | Sat'd       | 150 | yes                    | yes | yes |
| Copper Sulfate               | Sat'd       | 160 | yes                    | yes | yes | Sodium Bicarbonate                | Sat'd       | 160 | yes                    | yes | yes |
| Cocoonat Oil                 | Sat'd       | 90  | yes                    | yes | yes | Sodium Bisulfite                  | Sat'd       | 90  | yes                    | yes | yes |
| Cottonseed Oil               | Sat'd       | 90  | yes                    | yes | yes | Sodium Chloride                   | Sat'd       | 160 | yes                    | yes | yes |
| Disodium Phosphate           | Sat'd       | 160 | yes                    | yes | yes | Sodium Cyanide                    | Sat'd       | 160 | yes                    | yes | yes |
| Ethyl Alcohol                | Any         | 90  | yes                    | yes | yes | Sodium Dichromate                 | Sat'd       | 160 | yes                    | yes | yes |
| Ethylene Glycol              | Any         | 90  | yes                    | no  | yes | Sodium Hydroxide                  | 10%         | 150 | yes                    | no  | yes |
| Ferric Chloride              | 45%         | 120 | yes                    | yes | yes | Sodium Hydroxide                  | 35%         | 120 | yes                    | no  | yes |
| Ferrous Sulfate              | Sat'd       | 150 | yes                    | yes | yes | Sodium Hydroxide                  | 73%         | 160 | no                     | no  | no  |
| Fluoboric Acid               | Any         | 150 | yes                    | yes | yes | Sodium Hypochlorite               | Sat'd       | 90  | yes                    | no  | yes |
| Formaldehyde                 | 37%         | 120 | yes                    | yes | yes | Sodium Hypochlorite               | 15%         | 120 | yes                    | no  | yes |
| Formic Acid                  | 85%         | 100 | no                     | no  | no  | Sodium Sulfide                    | Sat'd       | 150 | yes                    | yes | yes |
| Gallic Acid                  | Sat'd       | 150 | no                     | no  | yes | Sodium Thiosulfate                | Sat'd       | 150 | yes                    | yes | yes |
| Glucose                      | Any         | 150 | yes                    | yes | yes | Sulfuric Acid                     | 15%         | 120 | yes                    | yes | yes |
| Glue                         | Any         | 150 | yes                    | yes | yes | Sulfuric Acid                     | 15%         | 160 | yes                    | yes | yes |
| Glycerine                    | Any         | 90  | yes                    | yes | yes | Sulfuric Acid                     | 50%         | 120 | yes                    | yes | yes |
| Gold Plating Solution        | Any         | 150 | yes                    | yes | yes | Sulfuric Acid                     | 70%         | 90  | yes                    | no  | yes |
| Hydrochloric Acid            | 10%         | 120 | yes                    | no  | yes | Sulfuric Acid                     | 98%         | 100 | no                     | no  | yes |
| Hydrochloric Acid            | 21.5%       | 120 | yes                    | no  | yes | Sulfurous Acid                    | 2%          | 120 | yes                    | no  | yes |
| Hydrochloric Acid            | 37.5%       | 120 | yes                    | no  | yes | Sulfurous Acid                    | 6%          | 120 | yes                    | no  | yes |
| Hydrochloric Acid            | 37.5%       | 90  | yes                    | no  | yes | Tannic Acid                       | Sat'd       | 90  | yes                    | yes | yes |
| Hydrofluoric Acid            | 4%          | 140 | yes                    | no  | yes | Tartaric Acid                     | Sat'd       | 90  | yes                    | yes | yes |
| Hydrofluoric Acid            | 10%         | 120 | yes                    | no  | yes | Tin Chloride Aqueous              | Sat'd       | 150 | yes                    | yes | yes |
| Hydrofluoric Acid            | 48%         | 120 | yes                    | no  | yes | Tin Plating Solution              | Sat'd       | 150 | yes                    | yes | yes |
| Hydrogen Peroxide            | 30%         | 120 | yes                    | yes | yes | Triethaneolamine                  | Sat'd       | 150 | yes                    | yes | yes |
| Hydrogen Sulfide             | Sat'd       | 120 | yes                    | yes | yes | Trisodium Phosphate               | Sat'd       | 150 | yes                    | yes | yes |
| Hydroquinone                 | Any         | 90  | yes                    | yes | yes | Water                             | Sat'd       | 160 | yes                    | yes | yes |
| Indium Plating Solution      | Any         | 150 | yes                    | yes | yes | White Liquor                      |             | 90  | yes                    | yes | yes |
| Lactic Acid                  | 50%         | 120 | yes                    | yes | yes | Zinc Plating Solution             |             | 160 | yes                    | yes | yes |
| Lactic Acid                  | Any         | 90  | yes                    | yes | yes | Zinc Sulfate                      | Sat'd       | 160 | yes                    | yes | yes |
| Lead Plating Solution        | Any         | 150 | yes                    | yes | yes |                                   |             |     |                        |     |     |