

## Urethane Interior Coating Chemical Resistance Chart

| SOLUTIONS                   | CONC. | TEMP. | RECOMMENDED EXPOSURE |        |           |
|-----------------------------|-------|-------|----------------------|--------|-----------|
|                             |       |       | FUMES                | SPLASH | IMMERSION |
| Acetic Acid                 | 10%   | 75° F | YES                  | YES    | NO        |
| Acid Copper Plating Sol.    | Any   | 75° F | YES                  | YES    | NO        |
| Alkaline Cleaners           | Any   | 75° F | YES                  | YES    | NO        |
| Aluminum Chloride           | Sat'd | 75° F | YES                  | YES    | NO        |
| Aluminum Sulfate            | Sat'd | 75° F | YES                  | YES    | NO        |
| Alums                       | Sat'd | 75° F | YES                  | YES    | NO        |
| Ammonium Chloride           | Sat'd | 75° F | YES                  | YES    | NO        |
| Ammonium Hydroxide          | 28%   | 75° F | YES                  | YES    | NO        |
| Ammonium Hydroxide          | 10%   | 75° F | YES                  | YES    | NO        |
| Ammonium Sulfate            | Sat'd | 75° F | YES                  | YES    | NO        |
| Ammonium Thiocyanate        | Sat'd | 75° F | YES                  | YES    | NO        |
| Amyl Alcohol                | Sat'd | 75° F | YES                  | YES    | YES       |
| Arsenic Acids               | Any   | 75° F | YES                  | YES    | NO        |
| Barium Sulfide              | Sat'd | 75° F | YES                  | YES    | NO        |
| Black Liquor                | Sat'd | 75° F | YES                  | YES    | NO        |
| Benzoic Acid                | Sat'd | 75° F | YES                  | YES    | NO        |
| Brass Plating Solution      | Sat'd | 75° F | YES                  | YES    | NO        |
| Bromine Water               | Sat'd | 75° F | YES                  | YES    | NO        |
| Butyl Alcohol               | Any   | 75° F | YES                  | YES    | NO        |
| Cadmium Plating Sol.        | Any   | 75° F | YES                  | YES    | NO        |
| Cadmium Bisulfate           | Any   | 75° F | YES                  | YES    | NO        |
| Calcium Chloride            | Sat'd | 75° F | YES                  | YES    | NO        |
| Calcium Hypochlorite        | Sat'd | 75° F | YES                  | YES    | NO        |
| Carbonic Acid               | Sat'd | 75° F | YES                  | YES    | NO        |
| Casein                      | Any   | 75° F | YES                  | YES    | NO        |
| Castor Oil                  | Any   | 75° F | YES                  | YES    | YES       |
| Caustic Soda                | 35%   | 75° F | YES                  | YES    | NO        |
| Caustic Soda                | 10%   | 75° F | YES                  | YES    | NO        |
| Caustic Potash              | 35%   | 75° F | YES                  | YES    | NO        |
| Caustic Potash              | 10%   | 75° F | YES                  | YES    | NO        |
| Chlorine Water              | Sat'd | 75° F | YES                  | YES    | NO        |
| Chromium Plating Sol.       | Any   | 75° F | YES                  | YES    | NO        |
| Citric Acid                 | Sat'd | 75° F | YES                  | YES    | NO        |
| Copper Chloride             | Sat'd | 75° F | YES                  | YES    | NO        |
| Copper Cyanide Plating Sol. | Any   | 75° F | YES                  | YES    | NO        |
| Copper Sulfate              | Sat'd | 75° F | YES                  | YES    | NO        |
| Coconut Oil                 | Sat'd | 75° F | YES                  | YES    | YES       |
| Cottonseed Oil              | Sat'd | 75° F | YES                  | YES    | YES       |
| Disodium Phosphate          | Sat'd | 75° F | YES                  | YES    | NO        |
| Ethyl Alcohol               | Any   | 75° F | YES                  | YES    | NO        |
| Ethylene Glycol             | Any   | 75° F | YES                  | YES    | YES       |
| Ferrous Sulfate             | Sat'd | 75° F | YES                  | YES    | NO        |
| Fluoboric Acid              | Any   | 75° F | YES                  | YES    | NO        |
| Formaldehyde                | 37%   | 75° F | YES                  | YES    | NO        |
| Formic Acid                 | 85%   | 75° F | YES                  | YES    | NO        |
| Gallic Acid                 | Sat'd | 75° F | YES                  | YES    | NO        |
| Glucose                     | Any   | 75° F | YES                  | YES    | YES       |
| Glycerine                   | Any   | 75° F | YES                  | YES    | YES       |
| Gold Plating Solution       | Any   | 75° F | YES                  | YES    | NO        |
| Hydrochloric Acid           | 10%   | 75° F | YES                  | YES    | NO        |
| Hydrochloric Acid           | 21.5% | 75° F | YES                  | YES    | NO        |
| Hydrochloric Acid           | 37.5% | 75° F | YES                  | YES    | NO        |
| Hydrofluoric Acid           | 4%    | 75° F | YES                  | YES    | NO        |
| Hydrofluoric Acid           | 10%   | 75° F | YES                  | YES    | NO        |
| Hydrofluoric Acid           | 48%   | 75° F | YES                  | YES    | NO        |
| Hydrogen Peroxide           | 30%   | 75° F | YES                  | YES    | NO        |
| Hydroquinone                | Any   | 75° F | YES                  | YES    | NO        |
| Indium Plating Solution     | Any   | 75° F | YES                  | YES    | NO        |
| Lactic Acid                 | Any   | 75° F | YES                  | YES    | NO        |
| Lead Plating Solution       | Any   | 75° F | YES                  | YES    | NO        |

| SOLUTIONS                               | CONC.       | TEMP. | RECOMMENDED EXPOSURE |        |           |
|---|-------------|-------|----------------------|--------|-----------|
|   |             |       | FUMES                | SPLASH | IMMERSION |
| Malic Acid                              | Any         | 75° F | YES                  | YES    | NO        |
| Methyl Alcohol                          | Any         | 75° F | YES                  | YES    | NO        |
| Mineral Oils                            | Any         | 75° F | YES                  | YES    | YES       |
| Nickel Acetate                          | Sat'd       | 75° F | YES                  | YES    | NO        |
| Nickel Plating Solution                 | Any         | 75° F | YES                  | YES    | NO        |
| Nickel Salts                            | Sat'd       | 75° F | YES                  | YES    | NO        |
| Nitric Acid                             | 35%         | 75° F | YES                  | YES    | NO        |
| Nitric Acid                             | 40%         | 75° F | YES                  | YES    | NO        |
| Nitric Acid                             | 60%         | 75° F | YES                  | YES    | NO        |
| Nitric/Hydrofluoric Acid                | 15%/4%      | 75° F | YES                  | YES    | NO        |
| Nitric Acid/<br>Sodium Dichromate Water | 16%/13%/71% | 75° F | YES                  | YES    | NO        |
| Oleic Acid                              | Any         | 75° F | YES                  | YES    | NO        |
| Oxalic Acid                             | Any         | 75° F | YES                  | YES    | NO        |
| Phenol                                  | Sat'd       | 75° F | YES                  | YES    | NO        |
| Phosphoric Acid                         | 75%         | 75° F | YES                  | YES    | NO        |
| Phosphoric Acid                         | 85%         | 75° F | YES                  | YES    | NO        |
| Potassium Acid Sulfate                  | Sat'd       | 75° F | YES                  | YES    | NO        |
| Potassium Antimonate                    | Sat'd       | 75° F | YES                  | YES    | NO        |
| Potassium Bisulfite                     | Sat'd       | 75° F | YES                  | YES    | NO        |
| Potassium Chloride                      | Sat'd       | 75° F | YES                  | YES    | NO        |
| Potassium Cuprocyanide                  | Sat'd       | 75° F | YES                  | YES    | NO        |
| Potassium Cyanide                       | Sat'd       | 75° F | YES                  | YES    | NO        |
| Potassium Dichromate                    | Sat'd       | 75° F | YES                  | YES    | NO        |
| Potassium Hypochlorate                  | Sat'd       | 75° F | YES                  | YES    | NO        |
| Potassium Sulfide                       | Sat'd       | 75° F | YES                  | YES    | NO        |
| Potassium Thiosulfate                   | Sat'd       | 75° F | YES                  | YES    | NO        |
| Propyl Alcohol                          | Sat'd       | 75° F | YES                  | YES    | NO        |
| Rhodium Plating Solution                | Sat'd       | 75° F | YES                  | YES    | NO        |
| Silver Plating Solution                 | Sat'd       | 75° F | YES                  | YES    | NO        |
| Soaps                                   | Any         | 75° F | YES                  | YES    | NO        |
| Sodium Acid Sulfate                     | Sat'd       | 75° F | YES                  | YES    | NO        |
| Sodium Antimonate                       | Sat'd       | 75° F | YES                  | YES    | NO        |
| Sodium Bicarbonate                      | Sat'd       | 75° F | YES                  | YES    | NO        |
| Sodium Bisulfite                        | Sat'd       | 75° F | YES                  | YES    | NO        |
| Sodium Chloride                         | Sat'd       | 75° F | YES                  | YES    | NO        |
| Sodium Cyanide                          | Sat'd       | 75° F | YES                  | YES    | NO        |
| Sodium Dichromate                       | Sat'd       | 75° F | YES                  | YES    | NO        |
| Sodium Hydroxide                        | 10%         | 75° F | YES                  | YES    | NO        |
| Sodium Hydroxide                        | 35%         | 75° F | YES                  | YES    | NO        |
| Sodium Hydroxide                        | 73%         | 75° F | YES                  | YES    | NO        |
| Sodium Hypochlorite                     | Sat'd       | 75° F | YES                  | YES    | NO        |
| Sodium Hypochlorite                     | 15%         | 75° F | YES                  | YES    | NO        |
| Sodium Sulfide                          | Sat'd       | 75° F | YES                  | YES    | NO        |
| Sodium Thiosulfate                      | Sat'd       | 75° F | YES                  | YES    | NO        |
| Sulfuric Acid                           | 15%         | 75° F | YES                  | YES    | NO        |
| Sulfuric Acid                           | 50%         | 75° F | YES                  | YES    | NO        |
| Sulfuric Acid                           | 70%         | 75° F | YES                  | YES    | NO        |
| Sulfuric Acid                           | 98%         | 75° F | YES                  | YES    | NO        |
| Sulfurous Acid                          | 2%          | 75° F | YES                  | YES    | NO        |
| Sulfurous Acid                          | 4%          | 75° F | YES                  | YES    | NO        |
| Tannic Acid                             | Sat'd       | 75° F | YES                  | YES    | NO        |
| Tartaric Acid                           | Sat'd       | 75° F | YES                  | YES    | NO        |
| Tin Chloride                            | Sat'd       | 75° F | YES                  | YES    | NO        |
| Tin Plating Solution                    | Sat'd       | 75° F | YES                  | YES    | NO        |
| Triethanolamine                         | Sat'd       | 75° F | YES                  | YES    | NO        |
| Trisodium Phosphate                     | Sat'd       | 75° F | YES                  | YES    | NO        |
| White Liquor                            | Sat'd       | 75° F | YES                  | YES    | NO        |
| Zinc Plating Solution                   | Sat'd       | 75° F | YES                  | YES    | NO        |
| Zinc Sulfate                            | Sat'd       | 75° F | YES                  | YES    | NO        |

# Technical Information

## PVC Exterior Coating Chemical Resistance Chart

| SOLUTIONS                                   | CONC. | TEMP. | RECOMMENDED EXPOSURE |        |           |
|---|-------|-------|----------------------|--------|-----------|
|   |       |       | FUMES                | SPLASH | IMMERSION |
| Acetic Acid                                 | 10%   | 120   | NO                   | NO     | NO        |
| Acid Copper Plating Sol.                    |       | 160   | YES                  | YES    | YES       |
| Alkaline Cleaners                           |       | 160   | YES                  | YES    | YES       |
| Aluminum Chloride                           | Sat'd | 160   | YES                  | YES    | YES       |
| Aluminum Sulfate                            | Sat'd | 160   | YES                  | YES    | YES       |
| Alums                                       | Sat'd | 160   | YES                  | YES    | YES       |
| Ammonium Chloride                           | Sat'd | 160   | YES                  | YES    | YES       |
| Ammonium Hydroxide                          | 28%   | 120   | YES                  | YES    | YES       |
| Ammonium Hydroxide                          | 10%   | 120   | YES                  | YES    | YES       |
| Ammonium Sulfate                            | Sat'd | 160   | YES                  | YES    | YES       |
| Ammonium Thiocyanate                        | Sat'd | 160   | YES                  | YES    | YES       |
| Amyl Alcohol                                | Any   | 90    | YES                  | YES    | YES       |
| Arsenic Acids                               | Any   | 150   | YES                  | YES    | YES       |
| Barium Sulfide                              | Sat'd | 160   | YES                  | YES    | YES       |
| Black Liquor                                | Sat'd | 90    | YES                  | YES    | YES       |
| Benzoic Acid                                | Sat'd | 160   | YES                  | YES    | YES       |
| Brass Plating Solution                      | Any   | 160   | YES                  | YES    | YES       |
| Bromine Water                               | Sat'd | 120   | YES                  | YES    | YES       |
| Butyl Alcohol                               | Any   | 90    | YES                  | YES    | YES       |
| Cadmium Plating Sol.                        | Any   | 150   | YES                  | YES    | YES       |
| Cadmium Bisulfate                           | Any   | 150   | YES                  | YES    | YES       |
| Calcium Chloride                            | Sat'd | 160   | YES                  | YES    | YES       |
| Calcium Hypochlorite                        | Sat'd | 120   | YES                  | YES    | YES       |
| Carbonic Acid                               | Sat'd | 160   | YES                  | YES    | YES       |
| Casein                                      | Any   | 90    | YES                  | YES    | YES       |
| Castor Oil                                  | Any   | 90    | YES                  | YES    | YES       |
| Caustic Soda                                | 35%   | 120   | YES                  | YES    | YES       |
| Caustic Soda                                | 10%   | 150   | YES                  | YES    | YES       |
| Caustic Potash                              | 35%   | 120   | YES                  | YES    | YES       |
| Caustic Potash                              | 10%   | 150   | YES                  | YES    | YES       |
| Chlorine Water                              | Sat'd | 90    | YES                  | YES    | YES       |
| Chromium Plating Sol.                       | Any   | 150   | YES                  | YES    | YES       |
| Citric Acid                                 | Sat'd | 160   | YES                  | YES    | YES       |
| Copper Chloride                             | Sat'd | 160   | YES                  | YES    | YES       |
| Copper Cyanide Plating Sol.<br>(High Speed) | Any   | 160   | YES                  | YES    | YES       |
| (with Alkali Cyanides)                      | Sat'd | 160   | YES                  | YES    | YES       |
| Copper Sulfate                              | Sat'd | 160   | YES                  | YES    | YES       |
| Coconut Oil                                 | Sat'd | 90    | YES                  | YES    | YES       |
| Cottonseed Oil                              | Sat'd | 90    | YES                  | YES    | YES       |
| Disodium Phosphate                          | Sat'd | 160   | YES                  | YES    | YES       |
| Ethyl Alcohol                               | Any   | 90    | YES                  | YES    | YES       |
| Ethylene Glycol                             | Any   | 90    | YES                  | YES    | NO        |
| Ferric Chloride                             | 45%   | 120   | YES                  | YES    | YES       |
| Ferrous Sulfate                             | Sat'd | 150   | YES                  | YES    | YES       |
| Fluoboric Acid                              | Any   | 150   | YES                  | YES    | YES       |
| Formaldehyde                                | 37%   | 120   | YES                  | YES    | YES       |
| Formic Acid                                 | 85%   | 100   | NO                   | NO     | NO        |
| Gallic Acid                                 | Sat'd | 150   | YES                  | NO     | NO        |
| Glucose                                     | Any   | 150   | YES                  | YES    | YES       |
| Glycerine                                   | Any   | 90    | YES                  | YES    | YES       |
| Gold Plating Solution                       | Any   | 150   | YES                  | YES    | YES       |
| Hydrochloric Acid                           | 10%   | 120   | YES                  | YES    | YES       |
| Hydrochloric Acid                           | 21.5% | 120   | YES                  | YES    | YES       |
| Hydrochloric Acid                           | 37.5% | 120   | YES                  | YES    | NO        |
| Hydrochloric Acid                           | 37.5% | 90    | YES                  | YES    | NO        |
| Hydrofluoric Acid                           | 4%    | 140   | YES                  | YES    | NO        |
| Hydrofluoric Acid                           | 10%   | 120   | YES                  | YES    | NO        |
| Hydrofluoric Acid                           | 48%   | 120   | YES                  | YES    | NO        |
| Hydrogen Peroxide                           | 30%   | 120   | YES                  | YES    | YES       |
| Hydrogen Sulfide                            | Sat'd | 120   | YES                  | YES    | YES       |
| Hydroquinone                                | Any   | 90    | YES                  | YES    | YES       |
| Indium Plating Solution                     | Any   | 150   | YES                  | YES    | YES       |

| SOLUTIONS                              | CONC.       | TEMP. | RECOMMENDED EXPOSURE |        |           |
|--|-------------|-------|----------------------|--------|-----------|
|  |             |       | FUMES                | SPLASH | IMMERSION |
| Lactic Acid                            | 50%         | 120   | YES                  | YES    | YES       |
| Lactic Acid                            | Any         | 90    | YES                  | YES    | YES       |
| Lead Plating Solution                  | Any         | 150   | YES                  | YES    | YES       |
| Malic Acid                             | Any         | 90    | YES                  | YES    | YES       |
| Methyl Alcohol                         | Any         | 90    | YES                  | YES    | YES       |
| Mineral Oils                           | Any         | 90    | YES                  | YES    | YES       |
| Nickel Acetate                         | Sat'd       | 160   | YES                  | YES    | YES       |
| Nickel Plating Solution                |             | 160   | YES                  | YES    | YES       |
| Nickel Salts                           | Sat'd       | 160   | YES                  | YES    | YES       |
| Nitric Acid                            | 35%         | 120   | YES                  | YES    | NO        |
| Nitric Acid                            | 40%         | 90    | YES                  | YES    | NO        |
| Nitric Acid                            | 60%         | 120   | YES                  | YES    | NO        |
| Nitric/Hydrofluoric Acid               | 15%/4%      | 140   | YES                  | YES    | YES       |
| Nitric Acid/Sodium<br>Dichromate Water | 16%/13%/71% | 130   | YES                  | YES    | YES       |
| Oleic Acid                             | Any         | 90    | YES                  | YES    | YES       |
| Oxalic Acid                            |             | 90    | YES                  | YES    | YES       |
| Phenol                                 | Sat'd       | 120   | NO                   | NO     | NO        |
| Phosphoric Acid                        | 75%         | 150   | YES                  | YES    | YES       |
| Phosphoric Acid                        | 85%         | 120   | YES                  | YES    | YES       |
| Potassium Acid Sulfate                 | Sat'd       | 150   | YES                  | YES    | YES       |
| Potassium Antimonate                   | Sat'd       | 150   | YES                  | YES    | YES       |
| Potassium Bisulfite                    | Sat'd       | 90    | YES                  | YES    | YES       |
| Potassium Chloride                     | Sat'd       | 160   | YES                  | YES    | YES       |
| Potassium Cuprocyanide                 | Sat'd       | 150   | YES                  | YES    | YES       |
| Potassium Cyanide                      | Sat'd       | 160   | YES                  | YES    | YES       |
| Potassium Dichromate                   | Sat'd       | 160   | YES                  | YES    | YES       |
| Potassium Hypochlorate                 | Sat'd       | 90    | YES                  | YES    | NO        |
| Potassium Sulfide                      | Sat'd       | 150   | YES                  | YES    | YES       |
| Potassium Thiosulfate                  | Sat'd       | 150   | YES                  | YES    | YES       |
| Propyl Alcohol                         | Sat'd       | 150   | YES                  | YES    | YES       |
| Rhodium Plating Solution               | Sat'd       | 150   | YES                  | YES    | YES       |
| Silver Plating Solution                | Sat'd       | 150   | YES                  | YES    | YES       |
| Soaps                                  | Any         | 90    | YES                  | YES    | YES       |
| Sodium Acid Sulfate                    | Sat'd       | 160   | YES                  | YES    | YES       |
| Sodium Antimonate                      | Sat'd       | 150   | YES                  | YES    | YES       |
| Sodium Bicarbonate                     | Sat'd       | 160   | YES                  | YES    | YES       |
| Sodium Bisulfite                       | Sat'd       | 90    | YES                  | YES    | YES       |
| Sodium Chloride                        | Sat'd       | 160   | YES                  | YES    | YES       |
| Sodium Cyanide                         | Sat'd       | 160   | YES                  | YES    | YES       |
| Sodium Dichromate                      | Sat'd       | 160   | YES                  | YES    | YES       |
| Sodium Hydroxide                       | 10%         | 150   | YES                  | YES    | NO        |
| Sodium Hydroxide                       | 35%         | 120   | YES                  | YES    | NO        |
| Sodium Hydroxide                       | 73%         | 160   | NO                   | NO     | NO        |
| Sodium Hypochlorite                    | Sat'd       | 90    | YES                  | YES    | NO        |
| Sodium Hypochlorite                    | 15%         | 120   | YES                  | YES    | NO        |
| Sodium Sulfide                         | Sat'd       | 150   | YES                  | YES    | YES       |
| Sodium Thiosulfate                     | Sat'd       | 150   | YES                  | YES    | YES       |
| Sulfuric Acid                          | 15%         | 120   | YES                  | YES    | YES       |
| Sulfuric Acid                          | 50%         | 120   | YES                  | YES    | YES       |
| Sulfuric Acid                          | 70%         | 90    | YES                  | YES    | NO        |
| Sulfuric Acid                          | 98%         | 100   | YES                  | NO     | NO        |
| Sulfurous Acid                         | 2%          | 120   | YES                  | YES    | NO        |
| Sulfurous Acid                         | 6%          | 120   | YES                  | YES    | NO        |
| Tannic Acid                            | Sat'd       | 90    | YES                  | YES    | YES       |
| Tartaric Acid                          | Sat'd       | 90    | YES                  | YES    | YES       |
| Tin Chloride                           | Sat'd       | 150   | YES                  | YES    | YES       |
| Tin Plating Solution                   | Sat'd       | 150   | YES                  | YES    | YES       |
| Triethanolamine                        | Sat'd       | 150   | YES                  | YES    | YES       |
| Trisodium Phosphate                    | Sat'd       | 150   | YES                  | YES    | YES       |
| White Liquor                           | Sat'd       | 90    | YES                  | YES    | YES       |
| Zinc Plating Solution                  |             | 160   | YES                  | YES    | YES       |
| Zinc Sulfate                           | Sat'd       | 160   | YES                  | YES    | YES       |



Contact us:  
customerservice@plastibond.com



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## Plasti-Bond REDH<sub>2</sub>OT Performance Standards/Descriptions

Exterior PVC and interior urethane coating performance shall be confirmed by the characteristics and tests listed below. Test samples shall be selected at random.

### FLAMMABILITY

The PVC coating will burn if subjected to sustained flame or heat above 400°F, however, it will self extinguish upon removal of the heat source or flame.

### TOXICITY

Prolonged exposure to heat greater than 200°F or exposure to fire may cause the PVC coating to release harmful emissions which could pose a potential health hazard. Therefore, PVC use is not recommended in areas exposed to sustained temperatures above 200°F. If exposed to fire, particularly in closed areas, users should be aware and observe proper caution.

### BOIL TEST

Acceptable conduit coating bonds shall be confirmed if there is no disbondment after a minimum average of 200 hours in boiling water or exposure to steam vapor at one atmosphere. The periodic increments between bond tests shall not exceed 5 hours for the first 25 hours, then it may be lengthened by mutual consent. The RN1 Bond Test and the Standard Method for Measuring Adhesion by Tape Test shall be utilized.

#### Exterior Adhesion

A 6" length of conduit test specimen shall be placed in boiling water. The specimen shall be periodically removed, cooled to ambient temperature and immediately tested according to the bond test (RN1). When the PVC coating separates from the substrate, the boil time to failure in hours shall be recorded. ASTM D870 describes this test method for accelerated testing of coating adhesive bonds.

#### Interior Adhesion

A 6" conduit test specimen shall be cut in half longitudinally and placed in boiling water or directly above boiling water with the urethane surface facing down. The specimen shall be periodically removed, cooled to ambient temperature and tested in accordance with the Standard Method of Adhesion by Tape Test (ASTM D3359). When the coating disbands, the time to failure in hours shall be recorded.

### HEAT/HUMIDITY TEST

Acceptable conduit coating bonds shall be confirmed by a minimum average of 30 days in the Heat and Humidity Test. The periodic increment between bond tests shall not exceed 5 days for the first 30 days, then may be lengthened by mutual consent. The RN1 Bond Test and the Standard Method for Measuring Adhesion by Tape Test shall be utilized.

#### Exterior Adhesion

Conduit specimens shall be placed in a heat and humidity environment where the temperature is maintained at 150°F (66°C) and 95% relative humidity. The specimens shall be periodically removed and a bond test (RN1) performed. When the PVC coating separates from the substrate, the exposure time to failure in days shall be recorded. ASTM D1151, D1735, D2247 AND D4585 are the basis for this accelerated method of evaluating adhesive bonding.

#### Interior Adhesion

The conditions for interior adhesion testing of conduit specimens are the same as those for external adhesion. ASTM D3359 is used to determine adhesive failure.

### ETL-VERIFIED PVC-001:

The PVC coating adhesion performance of this product has been ETL verified to the Interek ETL SEMKO High Temperature H2O PVC Coating Adhesion Test Procedure for 200 hours.

### CHEMICAL RESISTANCE TEST

No trace of the internal coating shall be visible on a white cloth following six wipes over the coating which has been wetted with acetone (ASTM D1308).

### POLYURETHANE

The supplier shall confirm that the internal coating which meets the above condition is a polyurethane.

Plasti-Bond has used the American Society for Testing and Materials (ASTM) standards to provide comparable and consistent test data. A list of ASTM standards referenced in the Plasti-Bond REDH<sub>2</sub>OT Coated Conduit Specification appears below.

### ASTM B1117

Standard Practice for Operating Salt Spray (Fog) Apparatus

### ASTM D149

Test Methods for Dielectric Breakdown Voltage and Dielectric Strength of Solid Electrical Insulating Materials at Commercial Power Frequencies

### ASTM D638

Test Method for Tensile Properties of Plastics

### ASTM D746

Test Method for Brittleness Temperature of Plastics and Elastomers by Impact

### ASTM D870

Method for Water Immersion Test of Organic Coatings on Steel

### ASTM D1151

Test Method for Effect of Moisture and Temperature on Adhesive Bonds

### ASTM D1654

Standard Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments

### ASTM D1735

Method for Water Fog Testing of Organic Coatings

### ASTM D2240

Test Method for Rubber Property-Durometer Hardness

### ASTM D2247

Method of Testing Coated Metal Specimens at 100% Relative Humidity

### ASTM D2444

Standard Test Method for Determination of the Impact Resistance of Thermoplastic Pipe and Fittings by Means of a Tap (Falling Weight)

### ASTM D3359

Method for Measuring Adhesion by Tape Test

### ASTM D4585

Testing Water Resistance of Coatings Using Controlled Condensation

### ASTM D1308

Effect of Chemicals on Clear and Pigmented Organic Finishes

### ASTM G153

Standard Practice for Operating Enclosed Carbon Arc Light Apparatus for Exposure of Non-Metallic Materials

### ASTM G155

Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials