

# Solid Vinyl Tile Chemical Resistance Chart

| <u>Chemical</u>                                | <u>1 Min</u> | <u>1 Hr</u> | <u>24 Hrs</u> | <u>Chemical</u>                                    | <u>1 Min</u> | <u>1 Hr</u> | <u>24 Hrs</u> |
|--|--------------|-------------|---------------|--|--------------|-------------|---------------|
| Acetic acid (concentrated)                     | 0            | 0           | SA 1          | Iodine   | 0            | SD 1        | CC 3          |
| Acetic acid (5%), white vinegar                | 0            | 0           | 0             | Isopropyl alcohol                                  | 0            | SD 1        | SD 2          |
| Acetone  | 0            | SA 1        | SA 2          | Isopropyl alcohol (70%)                            | 0            | 0           | 0             |
| Ammonium hydroxide, NH <sub>4</sub> OH (5%)    | 0            | 0           | 0             | Kerosene   | 0            | 0           | SA 1          |
| Amyl acetate                                   | 0            | 0           | SA 2          | Lighter fluid                                      | 0            | 0           | SD 1          |
| Benzene  | 0            | 0           | SA 1          | Methyl alcohol                                     | 0            | 0           | 0             |
| Betadine <sup>1</sup>                          | 0            | CC 1        | CC 2          | Methyl ethyl ketone (MEK)                          | SA 1         | SA 1        | SA 2          |
| Blood  | 0            | 0           | 0             | Methylene chloride                                 | SA 3         | SA 1        | SA 2          |
| Butyl alcohol                                  | 0            | 0           | SA 1          | Mineral oil, white medicinal grade                 | 0            | 0           | 0             |
| Carbon tetrachloride                           | 0            | 0           | SA 1          | Mineral spirits                                    | SD 1         | SD 2        | SA 1          |
| Chloroform                                     | 0            | 0           | SA 1          | Nitric acid (concentrated)                         | 0            | 0           | SD 2          |
| Creosote                                       | 0            | CC 2        | CC 3          | Nitric acid (5%)                                   | 0            | 0           | SA 1          |
| Cresol   | 0            | SA 1        | SA 2          | Olive oil  | 0            | 0           | 0             |
| CRL (Calcium, Lime, Rust) Remover <sup>2</sup> | CC1          | CC2         | CC2           | Perchloroethylene                                  | SD 2         | SA 1        | SA 2          |
| Dichloroethylene                               | 0            | SA 3        | SA 3          | Phenol disinfectant (5%)                           | 0            | 0           | 0             |
| Dimethyl sulfoxide                             | SA 2         | SA 2        | SA 2          | Silver nitrate (5%)                                | 0            | CC 1        | CC 3          |
| Ethyl acetate                                  | 0            | 0           | SA 2          | Silver nitrate (40%)                               | 0            | 0           | CC 3          |
| Ethyl alcohol                                  | 0            | 0           | 0             | Sodium hydroxide, NaOH (5%)                        | 0            | 0           | 0             |
| Ethyl ether                                    | 0            | 0           | SA 1          | Sodium hypochlorite, bleach (5.25%)                | 0            | 0           | 0             |
| Forane <sup>R</sup> - 113C                     | SD 2         | SD 2        | SA 1          | Sodium metasilicate                                | 0            | 0           | 0             |
| Forane <sup>R</sup> - 113E                     | SD 1         | SD 1        | SA 1          | Sulfuric acid (concentrated)                       | 0            | 0           | CC 3          |
| Forane <sup>R</sup> - MES                      | SD 1         | SD 1        | SA 1          | Sulfuric acid (77%)                                | 0            | 0           | CC 3          |
| Fuchsine                                       | 0            | CC 2        | CC 3          | Sulfuric acid, H <sub>2</sub> SO <sub>4</sub> (5%) | 0            | 0           | 0             |
| Freon <sup>R</sup>                             | 0            | 0           | 0             | Thimerosal   | 0            | SD 1        | CC 3          |
| Gasoline, unleaded                             | SD1          | SD 1        | SA 1          | Toluene  | SD 2         | SA 1        | SA 3          |
| Hydrochloric acid (concentrated)               | CC1          | CC2         | CC2           | Tribasic sodium phosphate                          | 0            | 0           | 0             |
| Hydrochloric acid, HCl (5%)                    | 0            | 0           | SA 1          | Trichloroethane                                    | SA 3         | SA 1        | SA 2          |
| Hydrofluoric acid (concentrated)               | 0            | 0           | 0             | Trichloroethylene                                  | SA 1         | SA 1        | SA 1          |
| Hydrofluoric acid (5%)                         | 0            | 0           | 0             | Urine  | 0            | 0           | 0             |
|  |              |             |               | Xylene   | 0            | 0           | SA 1          |

## Categories

\* SD: Surface dulling; Indicates that the specimen suffered from a loss of gloss

\* CC: Color change; Indicates that the specimen suffered discoloration or bleaching, or both

\* SA: Surface attack; Indicates that the specimen suffered surface damage such as softening, warping, swelling, blistering, peeling, raised or rough area

## Subjective category ratings

0 = no change

1 = slight change

2 = moderate change

3 = severe change

Notes: 1: May be removed using Windex with Ammonia D

\*\* Tested in accordance with ASTM F 925; chemicals exposed to tile surface for one hour and twenty-four hours