

CHEMICAL RESISTANT SPC BY DURCON™

Chemical Resistant SPC by Durcon*	Method	Black 1595
Amyl Acetone	A	0
Ethyl Acetate	A	0
Acetic Acid 98%	B	0
Acetone	A	0
Acid Dichromate 5%	B	0
Butyl Alcohol	A	0
Ethyl Alcohol	A	0
Methyl Alcohol	A	0
Ammonium Hydroxide, 28%	B	0
Benzene	A	0
Carbon Tetrachloride	A	0
Chloroform	A	1
Chromic Acid 60%	B	0
Cresol	A	0
Dichloro Acetic Acid	A	0
Dimethylformamide	A	0
Dioxane	A	0
Ethyl Ether	A	0
Formaldehyde 37%	A	0
Formic Acid 90%	B	0
Furfural	A	0
Gasoline	A	0
Hydrochloric Acid 37%	B	0
Hydrofluoric Acid 48%	B	1
Hydrogen Peroxide 28%	B	0
Tincture of Iodine	B	0
Methyl Ethyl Ketone	A	0
Methylene Chloride	A	0
Mono Chlorobenzene	A	1
Napthalene	A	0
Nitric Acid 20%	B	0
Nitric Acid 30%	B	0
Nitric Acid 70%	B	0
Phenol 90%	A	0
Phosphoric Acid 85%	B	0
Silver Nitrate, Saturated	B	0
Sodium Hydroxide 10%	B	0
Sodium Hydroxide 20%	B	0
Sodium Hydroxide 40%	B	0
Sodium Hydroxide Flake	B	0
Sodium Sulfide, Saturated	B	0
Sulfuric Acid 25%	B	0
Sulfuric Acid 85%	B	0
Sulfuric Acid 96%	B	2
Sulfuric Acid 85%, and Nitric Acid 70%, equal parts	B	0
Toluene	A	0
Trichlorethylene	A	0
Xylene	A	0
Zinc Chloride, Saturated	B	0

SEFA 3 Testing

Method A

For volatile chemicals. A cotton ball saturated with the test chemical was placed in a one ounce bottle (10mm x 75mm test tube or similar container). The container was inverted on the test material surface for a period of 24 hours. Temperature of test: 23° +/- 2° C (73° +/-4° F). This method was used for the organic solvents.

Method B

For non-volatile chemicals. Five drops (1/4cc) of the test chemical were placed on the test material surface. The chemical was covered with a watch glass (25mm) for a period of 24 hours. Temperature of test: 23° +/-2° C (73° +/-4° F). This method was used for all chemicals listed below other than the solvents.

Evaluation

After 24-hour exposure, exposed areas were washed with water, then a detergent solution and finally with isopropyl alcohol. Materials were then rinsed with distilled water and dried with a cloth. Samples are numerically rated as follows:

0 No Effect - No detectable change in the material surface.

1 Good - Slight detectable change in color or gloss but no change in function or life of the surface.

2 Fair - Slight surface etching or severer staining. Clearly discernible change in color or gloss but no significant impairment of surface life or function.

3 Poor - Pitting, cratering or erosion of the surface. Obvious and significant deterioration. Objectionable change in appearance due to dis-coloration.