



# Sikafloor 700 CHEMICAL RESISTANT COATING/BINDER

## CHEMICAL RESISTANCE GUIDE

The following Chemical Resistance Guide will aid in determining the effect of various chemicals to **Sikafloor 700 HCR COATING/BINDER**. Results are based on ASTM D-1380 procedure. Two samples were prepared based on a Clear and a color base mixed with Epoxy Color Add, Light Gray (ECA). Each system was mixed and applied to a panel sealed with Sika's Primer in accordance to Sika's standard specifications. The coatings were allowed to cure for a minimum of 7 days @ 77 °F prior to testing. A rating system for this guide is as follows:

### Film Integrity

1. Unaffected
2. Affected but area usable after drying
3. Partially Destroyed in contacted area
4. Contacted area destroyed

### Staining

- |                               |   |
|-------------------------------|---|
| <b>A.</b> Unaffected          | <b>G.</b> Stained but removed by soap and water               |
| <b>B.</b> Brown Stain         | <b>H.</b> Stained but removed with xylene or abrasive cleaner |
| <b>C.</b> White Stain         | <b>I.</b> Loss of Gloss                                       |
| <b>D.</b> Color Lightened     | <b>J.</b> Green or Blue Stain                                 |
| <b>E.</b> Yellow Stain        | <b>K.</b> Gray Stain  |
| <b>F.</b> Red or Orange Stain |   |

### ORGANIC ACIDS

	CLEAR		W/ ECA	
	SPLASH	24 HR.	SPLASH	24 HR.
Acetic Acid 5%	1i	1B	1a	1A
Acetic Acid 10%	1i	1B	1a	1A
Acetic Acid 20%	1i	1B	1a	1A
Glacial Acetic Acid	1i	1B	1a	1A
Butyric Acid 10%	1a	1I	1a	1A
Cresylic 10%	1a	1B	1a	1A
Formic Acid 10%	1i	1B	1a	1A
Lactic Acid 10%	1i	1B	1a	1A
Lactic Acid 25%	1i	1B	1a	1A
Maleic Acid 30%	1i	1B	1a	1A
Maleic Acid 60%	1a	1B	1a	1A
Malic Acid 50%	1a	1B	1a	1A
Monoacetic Acid 5%	1a	1B	1h	1H
Monoacetic Acid 10%	1i	1B	1a	1H
Oleic Acid	n/a	n/a	n/a	n/a
Oxalic Acid Sat.	1a	1I	1a	1A
Picric Acid Sat.	1e	1E	1e	1E

### INORGANIC ACIDS

	CLEAR		W/ ECA	
	SPLASH	24 HR.	SPLASH	24 HR.
Acetic Acid 50%	n/a	n/a	n/a	n/a
Boric Acid Sat.	1a	1A	1a	1A
Chromic Acid 2%	1b	1B	1b	1B
Chromic Acid 10%	1b	1B	1b	1B
Chromic Acid 15%	1b	1B	1b	1B
Hydrochloric Acid 10%	1a	1GI	1a	1A
Hydrochloric Acid 37%	1a	1A	1a	1A
Hydrochloric Acid Conc	1a	1D	1a	1A
Hydrofluoric Acid 10%	1j	1D	1a	1A
Hydrofluoric Acid 24%	1j	1A	1a	1A
Nitric Acid 10%	1a	1BF	1ie	1FI
Nitric Acid 30%	1b	2FI	1i	2EE
Nitric Acid Over 40%	1b	3FI	1f	2FI

### INORGANIC ACIDS CONT.

	CLEAR		W/ ECA	
	SPLASH	24 HR.	SPLASH	24 HR.
Nitric Acid Conc	2b	3-4FI	2b	3-4FI
Perchloric Acid 35%	1a	1D	1a	1F
Phosphoric Acid 10%	1d	1D	1a	1A
Phosphoric Acid 35%	1d	1K	1a	1A
Phosphoric Acid 75%	1d	1K	1a	1A
Sulfuric Acid 25%	1a	1D	1a	1A
Sulfuric Acid 50%	1a	1D	1a	1A
Sulfuric Acid 70%	1d	1D	1a	1E
Sulfuric Acid Conc.	1d	1FI	1a	1F

### ALKALIES AND SALTS

	CLEAR		W/ ECA	
	SPLASH	24 HR.	SPLASH	24 HR.
Aluminum Chloride 50%	1a	1A	1a	1A
Ammonium Chloride 50%	1a	1E	1a	1A
Ammonium Hydroxide 10%	1a	1A	1a	1A
Ammonium Hydroxide 20%	1a	1D	1a	1A
Ammonium Hydroxide 50%	1a	1D	1a	1A
Ammonium Nitrate Sat.	1a	1A	1a	1A
Ammonium Persulfate Sat.	1a	1A	1a	1A
Ammonium Sulfate Sat.	1a	1A	1a	1A
Calcium Chloride 50%	1a	1A	1a	1A
Calcium Hydroxide Sat	1a	1A	1a	1A
Calcium Hypochlorite 15%	1k	1BI	1a	1A
Ferric Chloride	1k	1BI	1b	1B
Ferric Sulfate	1k	1B	1b	1B
Potassium Hydroxide 40%	1a	1A	1a	1A
Sodium Bicarbonate Sat.	1a	1A	1a	1A
Sodium Bisulfate Sat.	1a	1A	1a	1A
Sodium Carbonate Sat.	1a	1A	1a	1A
Sodium Chloride 20%	1a	1A	1a	1A
Sodium Hydroxide 10%	1a	1A	1a	1A
Sodium Hydroxide 50%	1a	1A	1a	1A
Sodium Hypochlorite 10%	1e(LT)	1DI	1e	1E



# Sikafloor 700

## CHEMICAL RESISTANT COATING/BINDER

ALKALIES AND SALTS CONT.				
	CLEAR		W/ ECA	
	SPLASH	24 HR.	SPLASH	24 HR.
Sodium Sulfate Sat.	1a	1A	1a	1A
Sodium Sulfide Sat.	1a	1A	1a	1A
Trisodium Phosphate 10%	1a	1A	1a	1A

SOLVENTS				
	CLEAR		W/ ECA	
	SPLASH	24 HR.	SPLASH	24 HR.
Acetone	1a	1B	1a	1A
Benzene	1a	1A	1a	1A
Butyl Acetate	1a	1B	1a	1A
Carbon Tetrachloride	1A	1A	1a	1A
Chlorobenzene	1a	1K	1a	1A
Cyclohexane	1a	1A	1a	1A
Cyclohexanone	1a	1A	1a	1A
Chloroform	1a	1K	1a	1A
Diacetone Alcohol	1a	1A	1a	1A
Ethyl Acetate	1a	1B	1a	1A
Ethyl Alcohol	1a	1B	1a	1A
Ether	1i	1B	1a	1A
Ethylene Dichloride	1a	1A	1a	1A
Methyl Alcohol	1a	1A	1a	1I
Methyl Ethyl Ketone	1a	1D	1a	1A
Methyl Isobutyl Ketone	1a	1B	1a	1A
Methyk Salicycate 50% in Toluene	1A	1A	1a	1A
Methylene Chloride	1a	1BI	1a	1A
Mineral Spirits	1a	1A	1a	1A
Naphtha	1a	1A	1a	1A
Perchloroethane	1a	1A	1a	1A
Toluene	1a	1B	1a	1A
Trichloreothylene	1a	1A	1a	1A
Xylene	1a	1K	1a	1A
Gasoline	1a	1A	1a	1A
Hexane	n/a	n/a	n/a	n/a
SC-100	1a	1A	1a	1A
PM Acetate	1a	1A	1a	1A

MISCELLANEOUS CHEMICALS				
	CLEAR		W/ECA	
	SPLASH	24 HR.	SPLASH	24 HR.
Arcylonitrile	1k	1K	1a	1A
Aniline	1k	1K	1a	1A
Beer	1a	1D	1a	1BLT
Bromine	1f	1BF	1f	1F
Butyl Lactat	1a	1A	1a	1A
Carbon Disulfide	1a	1A	1a	1A
Corn Oil	1a	1A	1a	1A
Diethyl Phthalate	1a	1A	1a	1A
Dimethyl Phthalate	1a	1A	1a	1A
Ethylene Glycol	1k	1K	1g	1a
Formaldehyde	1h	1C	1g	1I
Glycerine	1a	1A	1a	1A
Hydrogen Peroxide	1a	1A	1a	1A
Fruit Juice	1a	1B	1h	1B
Lanoline	1a	1B	1a	1A
Mustard	1b	1B	1e(light)	1E
Phenol 5%	1a	1B	1b(light)	1BI
Pyridine	1a	1A	1a	1BI
Sydrol 500A	1a	1A	1a	1A
Sugar Soln. Sat	1a	1D	1a	1A
Tiacetin	1a	1A	1a	1A
Triethylene Glycol	1a	1A	1a	1A
Water	1a	1A	1a	1A
Wine	1a	1D	1a	1K
Ketchup	1a	1A	1a	1B
Brake Fluid	1a	1A	1a	1A
Motor Oil	1a	1B	1a	1A
Grease	n/a	n/a	n/a	n/a
Tide Soln.	1b	1B	1a	1A
1,1,1 Trichloroethane	1a	1A	1a	1A
2-Nitro Propane	1a	1A	1a	1A
Turpentine	1a	1A	1a	1A
Jet Fuel A-1	N/A	N/A	N/A	N/A
Cola	1a	1A	1a	1B(light)
10% Citric	1i	1D	1a	1B(light)
Isopropyl Alcohol	1a	1A	1a	1A
Transmission Fluid	1a	1K	1a	1A
Amyl Aetane	1a	1A	1a	1A
Triethanolamine	1a	1A	1a	1A
Tannic Acid	1j	1D	1a	1E(light)
Tartanic Acid	1a	1D	1a	1A
Betadine Solution	1e	1BE	1e	1BE
Urine	1h	1D	1b(light)	1B(light)

Revision: 03/09 CRG-Sikafloor700

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