

# S-41 CORROSION RESISTANT MEMBRANE

## PRODUCT DESCRIPTION:

S-41, when installed as a system with S-40, forms an acid-, alkali- and water resistant barrier, as well as a flexible membrane, between Summitville floor brick and concrete substrates. S-41 is a hot melt oxidized asphaltic compound free from fillers or other adulterants. S-41 contains no coal tar, phenol or naval store products.

S-41 will not be attacked when immersed for 5 days at 75°F in each of the following solutions:

- 1% Sulfuric Acid
- 5% Sodium Hydroxide
- 5% Potassium Hydroxide
- Water saturated with H<sub>2</sub>S

## USES:

The S-40/41 system is recommended for use in corrosive environments, such as concrete tank and floor construction in steel, chemical, pulp and paper, and refining industry applications. It protects concrete against highly corrosive chemical attack and isolates brick from structural movement of the concrete.

## TECHNICAL DATA: Physical Properties

Property	Test Method	Typical Value
Ash		Less than 0.2%
Specific Gravity @ 77°F (25°C)	ASTM D71	.95 to 1.1
Ball and Ring Melting Point °F	ASTM D36	200 to 225 (93.3°C to 107.2°C)
Penetration @ 77°F (25°C) 100 gm.-5 sec.	ASTM D5	30 to 50
Penetration @ 115°F (46.1°C) 50 gm.-5 sec.	ASTM D5	75 max.
Flash Point°F	ASTM D92	500 (260°C)
Fire Point°F	ASTM D92	500 (260°C)

## COVERAGE:

Quantity required for each 100 sq. ft. of surface: 150 lbs.

## PACKAGING:

S-41 is available in 100-lb. fiber drum.

## SPECIFICATIONS:

Material: S-41 shall be used as chemical resistant membrane on which tile or floor brick may be set. S-41 Asphaltum shall be a hot melt oxidized asphaltic compound free from fillers or other adulterants. It shall contain no coal tar, phenol or naval store products. S-41 shall be used in conjunction with S-40 primer. S-41 shall be supplied by Summitville Tiles Inc., Summitville, Ohio.

## S-41 CHEMICAL RESISTANCE REFERENCE GUIDE

CHEMICAL	80°F	150°F	CHEMICAL	80°F	150°F	CHEMICAL	80°F	150°F	CHEMICAL	80°F	150°F	CHEMICAL	80°F	150°F
Acetaldehyde	C	C	Carbon Tetrachloride	N	N	Hydrochloric Acid	R	R	Nitrobenzene	N	N	Sodium Hypochlorite, up to 3%	C	C
Acetic Acid, up to 10%	C	N	Chlorine Dioxide, Water soln.	N	N	Hydrocyanic Acid	R	R	Oleic Acid	C	N	Sodium Hypochlorite, 15% and over	N	N
Acetic Acid, Glacial	N	N	Chlorine Gas, Dry	R	R	Hydrofluoric Acid	C	C	Oxalic Acid	R	R	Sodium Nitrate, Sulfate	R	R
Alum	R	R	Chlorine Gas, Wet	R	C	Hydrofluosilicic Acid	C	C	Perchloric Acid	N	N	Sodium Sulfide	C	C
Aluminum Chloride, Nitrate, Sulfate	R	R	Chlorine Water	C	C	Hydrogen Peroxide	C	C	Phenol	N	N	Sodium Sulfite	R	R
Ammonium Chloride	R	R	Chloroacetic Acid, 10%	N	N	Hydrogen Sulfide Gas, Dry	R	R	Phosphoric Acid	R	R	Sodium Sulfite	R	R
Ammonium Chloride	R	R	Chlorobenzene	N	N	Hydrogen Sulfide Gas, Wet	R	R	Phosphorous Acid	R	R	Sodium Thiosulfate	R	R
Ammonium Hydroxide	R	C	Chloroform	N	N	Iron Chlorides, Nitrates, Sulfates	R	R	Phosphorous Trichloride	R	R	Soya Oil	N	N
Ammonium Nitrate, Sulfate	R	R	Chromic Acid, up to 5%	R	C	Isopropyl Ether	N	N	Phthalic Acid	R	R	Stearic Acid	C	N
Amyl Acetate	N	N	Chromic Acid, 10%	R	C	Kerosene	N	N	Picric Acid	N	N	Sulfur Dioxide Gas, Dry	R	R
Amyl Alcohol	R	R	Chromic Acid, 20%	C	C	Lactic Acid	R	R	Potassium Bicarbonate, Carbonate	R	R	Sulfur Dioxide Gas, Wet	R	R
Aniline	N	N	Chromic Acid, 50% and over	N	N	Lead Acetate, Nitrate	R	R	Potassium Chloride, Cyanide	R	R	Sulfur Trioxide Gas, Dry	R	R
Aqua Regia	N	N	Citric Acid	R	R	Linseed Oil	N	N	Potassium Ferricyanide	R	R	Sulfur Trioxide Gas, Dry	R	R
Barium Chloride	R	R	Copper Chloride, Nitrate, Sulfates	R	R	Magnesium Chloride	R	R	Potassium Ferrocyanide	R	R	Sulfuric Acid, up to 50%	R	R
Barium Hydroxide	R	R	Dichloroacetic Acid, 10%	R	N	Magnesium Hydroxide	R	R	Potassium Hydroxide, up to 30%	R	C	Sulfuric Acid, 80%	C	N
Barium Nitrate	R	R	Dichlorobenzene	N	N	Magnesium Nitrate, Sulfate	R	R	Potassium Hydroxide, 30% and over	R	C	Sulfuric Acid, 93%	N	N
Barium Sulfide	C	N	Diethyl Ether	N	N	Maleic Acid	R	C	Potassium Nitrate, Sulfate	R	R	Sulfuric Acid, over 93%	N	N
Benzene	N	N	Ethyl Acetate	N	N	Mercuric Acetate	R	R	Pyridine	N	N	Sulfuric Acid, fuming	N	N
Benzene Sulfonic Acid, 10%	R	R	Ethyl Alcohol	R	R	Methyl Acetate	N	N	Rochelle Salt	R	R	Sulfurous Acid	R	R
Benzoic Acid	R	R	Ethyl Sulfate	N	N	Methyl Alcohol	R	R	Saiicylic Acid	R	R	Tannic Acid	R	R
Boric Acid	R	R	Ethylene Chloride	N	N	Methyl Ethyl Ketone	N	N	Silver Nitrate	R	R	Tartaric Acid	R	R
Bromine Water	N	N	Ethylene Glycol	R	R	Methyl Sulfate	N	N	Sodium Acetate	R	R	Tin Chloride, Sulfate	R	R
Butyl Acetate	N	N	Fluosilicic Acid	C	C	Mineral Oil	N	N	Sodium Bicarbonate	R	R	Toluene	N	N
Butyl Alcohol	R	R	Formaldehyde	C	C	Mineral Spirits	N	N	Sodium Carbonate	R	R	Trichloroethylene	N	N
Butyric Acid	N	N	Formic Acid	C	N	Muriatic Acid	R	R	Sodium Chloride	R	R	Trisodium Phosphate	C	N
Cadmium Chloride, Nitrate, Sulfate	R	R	Gasoline	N	N	Nickle Chloride, Nitrate, Sulfate	R	R	Sodium Cyanide	R	R	Tung Oil	N	N
Calcium Bisulfite, Chloride	R	R	Glycerine	R	R	Nitric Acid, up to 5%	R	R	Sodium Hydroxide, up to 30%	R	C	Urea	R	R
Calcium Hydroxide	R	C	Gold Cyanide	R	R	Nitric Acid, 20%	R	C	Sodium Hydroxide, 30 and over%	C	N	Sylene	N	N
Calcium Nitrate	R	R	Hexane	N	N	Nitric Acid, 40%	N	N				Zinc Chloride, Nitrate, Sulfate	R	R
Carbon Disulfide	N	N	Hydrobromic Acid	R	R	Nitric Acid, 50% and over	N	N						

R = Recommended  
N = Not Recommended

C = Conditional  
Contact Summitville Tiles, Inc. before installation