

SeamTek N² Type 1 Chemical Resistance

Tensile Strength	ASTM D-638	13,000 psi
Flexural Strength	ASTM D-790	25,000 psi
Compressive Strength	ASTM D-695	17,000 psi
Bond Strength	ASTM D-4541	425 psi (100% concrete failure)
Flammability	ASTM D-635	Self Extinguishing
Indentation	MIL D-3134F	None
Impact Resistance	MIL D-D-2794	16 ft-lbs without cracking chipping or delaminating

Chemical Resistance Guide		
Chemical Environment	% Concentration	Maximum temp (°F) for continued use
Acetic Acid	Up to 25	200
Acetic Acid	50	170
Acetic Acid	75	140
Acetic Acid, Glacial	100	Not Recommended
Acetone	10	100 (Intermittent Spills only)
Acetone	100	Not Recommended
Acid Cleaner - 31% hydrochloric acid	50	70
Calcium Bisulfate	All	170
Calcium Carbonate	All	150
Calcium Chlorate	All	200
Calcium Chloride	All	200
Calcium Hydroxide	15	150
Calcium Hydroxide	25	190
Calcium Hydroxide	100	190
Chlorine Dioxide	All	140
Chlorine Dioxide, wet	Saturated	170
Chlorine Water	Saturated	170
Chloroform	100	Not Recommended
Chromic Acid	up to 20	140
Chromic Acid	30	Not Recommended
Citric Acid	All	200
Deionized Water	100	170
Dematerialized Water	100	170
Detergents, Organic, ph12	100	140
Detergents, Sulfonated	All	200
Ethyl Alcohol	All	80
Ethyl Acetate		Not Recommended
Ethylene Glycol	All	200

Formaldehyde	All	120
Glycerin	100	200
Glycolic Acid (Hydroxyl acetic)	70	90
Hydrochloric Acid	up to 20	200
Hydrochloric Acid	37	170
Hydrochloric Acid, fumes		200
Iodine, Crystals		140
Iodine, Vapors		140
Isopropyl Alcohol	All	110
Magnesium Carbonate	All	170
Magnesium Chloride	All	200
Magnesium Hydroxide	100	200
Methyl Alcohol	100	Not Recommended
Methylene Chloride	100	Not Recommended
Muriatic Acid	100	200
Nitric Acid	5	140
Nitric Acid	20	110
Nitric Acid	40	Not Recommended
Nitric Acid, fumes		170
Phosphoric Acid	85	200
Phosphoric Acid	100	200
Sodium Chloride, pH10.5, Cl2Sat'd	Saturated	190
Sodium Chloride, pH 3.5	Saturated	170
Sodium Cyanide	All	200
Sodium Hydroxide	50	180
Sulfuric Acid	93	Not Recommended
Sulfuric Acid: Phosphoric Acid	10:20	170
Toluene	100	70

The system shall have the minimum chemical resistance to the following Commercial Compounds:

Effect after 7 days emersion (NE=no effect, SE= slight surface etching)

Formulator: Pharmacal Research Labs	
Compound	Results
Clout	NE
PRL-18	SE
PRL-18	SE
PH Control	SE
Urid	NE
Uri-Solv	NE
Clidox-S-Activator	NE
Clidox-S-Base	NE
Clidox-S Mixed (1:5:1	NE

Formulator: Steris	
Compound	Results
TBO	NE
PRLCage KLenz 100	NE
PRLCage KLenz 200	NE
PRLCage KLenz 220	NE

Formulator:Duron	
Compound	Results
Xylene	NE