

## PROTEC III LSF CHEM RX

### ASTM TESTS

ASTM	NAME OF TEST	USES OF TEST	RESULTS
ASTM C418	Standard Test Method for Abrasion Resistance of Concrete.	Increase in hardness	67% increase
ASTM C1353	Taber Abrasion	Abrasion resistance	Increase of abrasion resistance by 46% at 1000 cycles
ASTM C642	Test Method for Density Absorption and Voids in Hardened Concrete	Evaluate products ability to reduce absorption	Reduction of 72%
ASTM C803	Penetration Resistance	Determination of hardness and compression values	In various tests compression of the top wear layer has been measured and calculated to be up to 50 mpa from a 30 mpa mix design.
ASTM B117	Standard Method of Salt Spray	Used as a chloride ion permeability test	57% decrease in permeability to Salt Spray.

### CHEMICAL RESISTANCE CHART

#### Acids

Acetic Acid <10%  
 Acid Waters pH<6.5  
 Boric Acid  
 Carbolic  
 Carbonic  
 Chromic 5%  
 Formic 10% & 90%  
 Humic  
 Hydrochloric 10%  
 Phosphoric 10%&85%  
 Tannic

#### Salts

Bromide, sodium  
 Dichromate sodium  
 Potassium  
 Nitrate  
 Nitrite  
 Persulfate  
 Sulfite, sodium  
 Thiosulfate,  
 Sodium

#### Petroleum Oils

Light oil above  
 35 Baume  
 Gasoline

#### Solvents and Alcohols

Carbon tetrachloride  
 Ethyl alcohol  
 Methyl alcohol  
 t-Butyl alcohol  
 Trichloroethylene  
 Acetone  
 Carbon disulfide

Glycerin  
 Ethylene glycol

#### Miscellaneous

Buttermilk  
 Chlorine gas  
 Cider  
 Coal  
 Coke  
 Cold Ashes  
 Corn Syrup  
 Fermenting Fruits  
 Formaldehyde  
 Hydrogen sulfide  
 Iodine  
 Lignite Oils  
 Manure  
 Mine water, waste  
 Molasses  
 Nickel plating solutions  
 Ores  
 Sauerkraut  
 Sea water  
 Silage  
 Sugar  
 Sulfite Liquor  
 Sulfur Dioxide  
 Tanning Bark  
 Tanning Liquor  
 Water (soft <75 ppm carbonate)  
 Wine

LAST UPDATED: JANUARY 2015