



advanced integrated technology
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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