

# TL-0004 — Chemical Resistance Technical Letter (US Version)

Several series of tests have been conducted to define the chemical resistance of PREPRUFE® and BITUTHENE® waterproofing membranes. Both PREPRUFE® and BITUTHENE® membranes are highly resistant to normal ground water conditions which range from alkaline to acidic. In addition, PREPRUFE® and BITUTHENE® waterproofing membranes are unaffected by exposure to salt water.

Occasionally PREPRUFE® and BITUTHENE® membranes may be used in applications which will be subjected to intermittent or even continuous exposure to chemicals. The following guidelines can be used to evaluate the applicability of the PREPRUFE® and BITUTHENE® membrane system.

**NOTE:** Most solvents and fuels will not significantly affect polyethylene film but may soften or dissolve the adhesive compounds exposed at the edge laps of BITUTHENE® membranes. Detailed information on the type of exposure is necessary to make recommendations.

For below slab and blind side applications, a concrete mud-slab or continuous soil retention system will reduce the exposure of the PREPRUFE® membrane laps. For BITUTHENE® membrane wall applications, the use of a solvent resistant tape, should be used over the membrane edges to protect the rubberized asphalt from prolonged exposure.

EXPOSURE CONDITIONS	PREPRUFE® AND BITUTHENE® MEMBRANE RESISTANCE RATING
Sea water, de-icing salt	Excellent
Acids in solution e.g. sulfuric, acetic, hydrochloric and nitric acid	Excellent
Alkalis e.g. Sodium hydroxide, ammonium hydroxide	Excellent
Alcohols	Very Good
Organic or fuel oils, solvents	Variable (See note.)

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