

# ROOF MATE

## Technical Bulletin

### Chemical Resistance of Roofing Elastomers

#### Comparison of Chemical Resistance of Roofing Elastomers

Agent	Roofshield®	Roof Mate	Roof Mate HT	Elastuff 102
Hot Water	Very Good	Good	Good	Good
Sea Water	Excellent	Excellent	Excellent	Excellent
Soap	Good	Good	Good	Excellent
Oils and Fats	Very Good	Very Good	Very Good	Excellent
Alkali (1N NaOH - Weak Lye Solution)	Good	Good	Good	Poor
Acid (5% HCl -Weak Muriatic Solution)	Very Poor	Fair	Good	Good
Acid Rain (Weak Sulfuric Acid)	Fair	Fair	Good	Fair
Deicer (CaCl)	Excellent	Excellent	Excellent	Excellent
Antifreeze (Ethylene Glycol)	Very Good	Very Good	Very Good	Excellent
Motor Oil	Very Good	Very Good	Very Good	Excellent
Diesel Fuel	Good	Very Good	Very Good	Excellent
Hydrogen Peroxide	Very Good	Very Good	Very Good	Very Good
Bleach	Very Good	Very Good	Very Good	Fair
Vinegar (3-5% Acetic Acid)	Very Poor	Fair	Good	Good
Industrial Acid Cleaner (10% HCl)	Very Poor	Fair	Good	Fair
Industrial Acid Cleaner (20% Phosphoric)	Very Poor	Very Poor	Good	Fair
Strong Caustic (20% NaOH Solution)	Fair	Poor	Fair	Fair
Strong Caustic (28% Ammonia)	Fair	Fair	Fair	Poor
Oxygenated Gasoline	Fair	Fair	Fair	Good
Jet Fuel	Very Good	Very Good	Very Good	Good

#### Basis of Testing

##### Incidental Contact Exposure as per ASTM D1308

1. This approach addresses short term spill and splash exposures under normal ambient service conditions.
2. This data is not intended for evaluating resistance to continuous or elevated temperature conditions, however, products that rate "Very Good" or "Excellent" may be candidates for such applications. Additional testing in support of such applications may be available.
3. Finally, incidental contact protocol emphasizes the retention of a coating's properties, not the protection it should provide to a specific substrate. For example, **Roofshield** resists sea water exceptionally well, although it may not be a good barrier for concrete exposed to sea water.

#### Scale and Interpretation

Excellent	Retains Properties
Very Good	Slight change/ Color change
Good	Softens
Fair	Incidental Contact
Poor	Loss of Properties
Very Poor	Dissolves
Report based on third party report "Chemical Resistance Study CS0711", Acid Rain Studies 1997, and our proprietary knowledge of composition	



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