

RECOMMENDED USE DEFINITIONS

IMMERSION SERVICE (Most Severe) – IS

Suitable for continuous contact with chemical exposure up to specified temperature.

CARGO/TEMPORARY IMMERSION – CI

Suitable for 60 day continuous contact with chemical exposure up to specified temperature. Coating will show no effect except slight softening or color change, possibly permanent, after 60 days or less continuous immersion. When used in transport or hauling conditions, the vessel must be completely drained to prevent puddling that would constitute continuous immersion.

SECONDARY CONTAINMENT – SC

Suitable for continuous contact with chemical for up to 72 hours. Softening or discoloration may occur during the exposure.

FREQUENT CONTACT – FC

Suitable for frequent splash or up to 72 hours exposure to concentrated vapors. The coating will show no effects except slight softening or color change, possibly permanent, after eight hours continuous immersion in the liquid chemical or 72 hours exposure to the vapor.

OCCASIONAL CONTACT (Least Severe) – OC

Suitable for occasional splash and spillage or occasional exposure to concentrated vapors. The coating shows no effects, except slight softening or color changes, following short exposure to splash or spillage which evaporates, is hosed off, or dried overnight or, 24 hours exposure to vapor.

NOT TESTED – This chemical has not been tested or evaluated for the listed chemical.

NOT RECOMMENDED – This product is not recommended for the listed exposure. The product's resistance to the listed chemical is often queried, therefore this information is provided as a reference even though the product is not recommended.

IMPORTANT NOTES

The term "chemicals" is used broadly in this guide and can refer to various constituents including, but not limited to, acids, fatty acids, food and beverage materials, finished and unrefined hydrocarbons, as well as individual chemicals and chemical blends.

Temperature can have a significant effect on a coating's chemical resistance. Prior to coating selection, due care should be taken to determine the service temperature of stored chemicals, elevated temperature caused by natural environmental conditions (i.e. radiant heat from sun, weather), and temperature fluctuations during service (i.e. loading of cargo, service cycling).

Chemical mixtures and alternating chemical storage can aggressively degrade a coating or lining system. Prior to coating selection and application, the expected chemical exposures and sequence of chemical storage should be discussed with Tnemec Technical Service to ensure the proper coating is selected.

Proper surface preparation is always important to ensure optimum coating performance but it is even more so for coatings that will undergo chemical exposure. Carefully read product data sheets along with related application guides to determine the required level of surface preparation and surface profile.

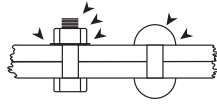
Structural designs of tanks, structures, and containment areas can greatly affect coating performance. Sharp angles, channels, edges, corners, pits, voids, defects, rough welds, and other similar conditions present areas that are either difficult to coat or achieve the required film thickness. Avoid skip welds in favor of continuous welds. A stripe coat on these areas, prior to full coating application, can help achieve needed film thickness and prevent premature coating failure. (Reference NACE SP0178-2007 for more information.)

The length of a coating system's service life depends on surface cleanliness and preparation prior to application, proper application procedures, exposure conditions, physical abuse, cleaning techniques, and frequency of inspection, maintenance, and repair. No coating system has an unlimited service life. Regular inspection of the coating system can prolong service life by identifying areas in need of repair. Additionally, regular inspections can determine when the coating system is nearing its end of service and should be completely replaced.

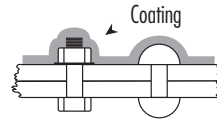
Chemical resistance information is provided for the purpose of establishing a general profile of the coating and was obtained through laboratory testing, field experience, and industry knowledge. Test results were produced in a controlled environment and Tnemec makes no claim that any tests, or published chemical resistance information, accurately represent all environments or correlate to actual field performance. Application, environmental and design factors, chemical temperatures, chemical mixtures, sequence of storage, conditions of service, and cleaning procedures can significantly impact coating performance, so due care must be exercised in the selection and use of the coating. Tnemec disclaims responsibility for product use outside its published information. Contact Tnemec Technical Service to review full project details before the coating or coating system is selected and applied.

COMMON PROBLEM AREAS FOR COATINGS AND SOLUTIONS

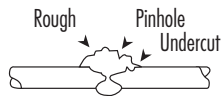
Problem:
Points of failure due to thin spots in coating



Solution:
Carefully and fully coat



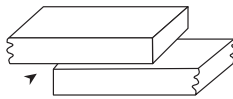
Problem:
Uneven welds



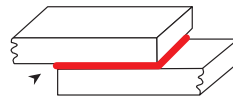
Solution:
Grind smooth



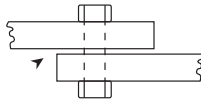
Problem:
Gaps between plates, coating can not cover



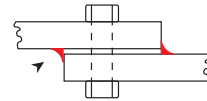
Solution:
Continuous welds



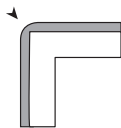
Problem:
Gaps between plates, coating can not cover



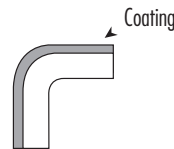
Solution:
Continuous welds



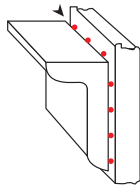
Problem:
Sharp surface contours create thin spots in coating



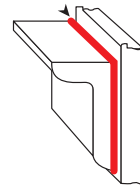
Solution:
Round the contours



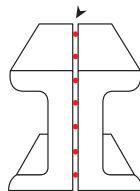
Problem:
Skip welding creates gaps that coating can not cover



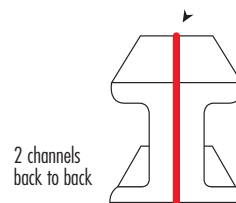
Solution:
Continuous welds



Problem:
Skip welding creates gaps that coating can not cover



Solution:
Continuous welds



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¹ Product is NOT suitable for direct or indirect food contact. Intended Use and temperature information relates to product's performance capabilities only.

² Product is suitable for direct or indirect food contact. Reference the product data sheet for more information.

| Chemical | Intended Use (Maximum Temperature Listed) | | | | |
|--|--|------------------|-----------------------|-----------------|-------------------|
| | Occasional Contact | Frequent Contact | Secondary Containment | Cargo Immersion | Immersion Service |
| 1, 1, 1-Trichloroethane (Trichloroethane) | 100°F (38°C) | | | | |
| Acetaldehyde | NR | NR | NR | NR | NR |
| Acetic Acid | | | | | |
| 5% | 100°F (38°C) | | | | |
| 10% | 100°F (38°C) | | | | |
| 30% | NR | NR | NR | NR | NR |
| Acetic Acid, Glacial | NR | NR | NR | NR | NR |
| Acetic Anhydride | | | | | |
| 100% | NR | NR | NR | NR | NR |
| Acetone | 100°F (38°C) | | | | |
| Acetonitrile | | | | | |
| 20% | NR | NR | NR | NR | NR |
| 100% | NR | NR | NR | NR | NR |
| Acrylic Acid | | | | | |
| 25% | NR | NR | NR | NR | NR |
| Acrylic Latex Solution | PC | PC | PC | PC | PC |
| Acrylonitrile | | | | | |
| 100% | NR | NR | NR | NR | NR |
| Activated Carbon | 100°F (38°C) | 100°F (38°C) | | | |
| Adipic Acid (Dry) | 100°F (38°C) | | | | |
| Allyl Chloride | NR | NR | NR | NR | NR |
| Aluminum Chloride | | | | | |
| 25% | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | | |
| Aluminum Hydroxide | 100°F (38°C) | 100°F (38°C) | | | |
| Aluminum Nitrate | | | | | |
| 50% | PC | PC | PC | PC | PC |
| Aluminum Sulfate (Alum) | | | | | |

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| | Occasional Contact | Frequent Contact | Secondary Containment | Cargo Immersion | Immersion Service |
| 49% | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Ammonium Bisulfite | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Ammonium Carbonate | PC | PC | PC | PC | PC |
| Ammonium Chloride | | | | | |
| 50% | PC | PC | PC | PC | PC |
| Ammonium Fluoride | NR | NR | NR | NR | NR |
| Ammonium Hydroxide | | | | | |
| 10% | 100°F (38°C) | 100°F (38°C) | | | |
| 30% | PC | PC | PC | PC | PC |
| Ammonium Lauryl Sulfate | | | | | |
| 30% | NR | NR | NR | NR | NR |
| Ammonium Nitrate | | | | | |
| 38% | PC | PC | PC | PC | PC |
| 50% | PC | PC | PC | PC | PC |
| Ammonium Nitrite | | | | | |
| 50% | PC | PC | PC | PC | PC |
| Ammonium Perchlorate (Dry) | NR | NR | NR | NR | NR |
| Ammonium Persulfate | | | | | |
| 10% | PC | PC | PC | PC | PC |
| Ammonium Phosphate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Ammonium Sulfate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Ammonium Sulfide | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Ammonium Sulfite | PC | PC | PC | PC | PC |
| Amyl Acetate | 100°F (38°C) | | | | |
| Aniline | | | | | |
| 20% | NR | NR | NR | NR | NR |
| Animal Fats | PC | PC | PC | PC | PC |
| Aqua Ammonia | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | | |

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|--------------------------------------|--|------------------|-----------------------|-----------------|-------------------|
| | Occasional Contact | Frequent Contact | Secondary Containment | Cargo Immersion | Immersion Service |
| Aqua Regia | NR | NR | NR | NR | NR |
| Aviation Gas | PC | PC | PC | PC | PC |
| Barium Chloride | | | | | |
| 50% | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Barium Hydroxide | | | | | |
| 50% | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Barium Nitrate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Barium Sulfate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Barium Sulfide | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Beer (non-food contact) ¹ | PC | PC | PC | PC | PC |
| Benzene | 100°F (38°C) | 100°F (38°C) | | | |
| Benzene Sulfonic Acid | NR | NR | NR | NR | NR |
| Benzoic Acid | NR | NR | NR | NR | NR |
| Benzoyl Chloride | PC | PC | PC | PC | PC |
| Benzyl Alcohol | 100°F (38°C) | | | | |
| Benzyl Chloride | PC | PC | PC | PC | PC |
| Borax | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Boric Acid | | | | | |
| 5% | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Butyl Acrylate | NR | NR | NR | NR | NR |
| Butyl Amine | NR | NR | NR | NR | NR |
| Butyric Acid | NR | NR | NR | NR | NR |
| Cadmium Bromide | | | | | |
| 10% | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Cadmium Chloride | | | | | |
| 50% | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Cadmium Plating (Cyanide) | NR | NR | NR | NR | NR |
| Calcium Bisulfate | NR | NR | NR | NR | NR |

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|------------------------------------|--|------------------|-----------------------|-----------------|-------------------|
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| Calcium Bromide | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Calcium Carbonate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Calcium Chloride | | | | | |
| 50% | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Calcium Hydroxide (Lime Slurry) | | | | | |
| 30% | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Calcium Hypochlorite | | | | | |
| 5% | 100°F (38°C) | 100°F (38°C) | | | |
| Calcium Nitrate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Calcium Nitrite | 100°F (38°C) | | | | |
| Calcium Oxide | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Calcium Sulfate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Calcium Sulfite | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Caprolactam | PC | PC | PC | PC | PC |
| Carbon Disulfide | PC | PC | PC | PC | PC |
| Carbon Tetrachloride | PC | PC | PC | PC | PC |
| Castor Oil | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Chlorine Dioxide | PC | PC | PC | PC | PC |
| Chlorobenzene | NR | NR | NR | NR | NR |
| Chloroform | NR | NR | NR | NR | NR |
| Chlorosulfonic Acid | NR | NR | NR | NR | NR |
| Chromic Acid | | | | | |
| 10% | 100°F (38°C) | 100°F (38°C) | | | |
| 20% | NR | NR | NR | NR | NR |
| Citric Acid | | | | | |
| 50% | 100°F (38°C) | 100°F (38°C) | | | |
| Coal (high and low sulfur) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |

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|--|--|------------------|-----------------------|-----------------|-------------------|
| | Occasional Contact | Frequent Contact | Secondary Containment | Cargo Immersion | Immersion Service |
| Cola (non-food contact) ¹ | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Copper Acetate | | | | | |
| 50% | PC | PC | PC | PC | PC |
| Copper Chloride | PC | PC | PC | PC | PC |
| Copper Sulfate | | | | | |
| 10% | PC | PC | PC | PC | PC |
| 20% | PC | PC | PC | PC | PC |
| 50% | PC | PC | PC | PC | PC |
| Copper Sulfate (dry) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | | |
| Corn Mash Solution (non-food contact) ¹ | 100°F (38°C) | | | | |
| Corn Oil (non-food contact) ¹ | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Cottonseed Oil (non-food contact) ¹ | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Cresylic Acid | NR | NR | NR | NR | NR |
| Crude Oil (Sour) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Crude Oil (Sweet) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Cumene Hydroperoxide | NR | NR | NR | NR | NR |
| Cuprous Chloride | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Cyclohexane | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Cyclohexanol | PC | PC | PC | PC | PC |
| Cyclohexanone | PC | PC | PC | PC | PC |
| Cyclohexamine | NR | NR | NR | NR | NR |
| Dextrose | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Diacetone Alcohol | NR | NR | NR | NR | NR |
| Dibutyl Phthalate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Diesel Fuel (Fuel Oil, Diesel Oil) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Diethanolamine | PC | PC | PC | PC | PC |
| Diethylene Glycol | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |

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| | Occasional Contact | Frequent Contact | Secondary Containment | Cargo Immersion | Immersion Service |
| Diethylene Glycol Monobutyl Ether (Butyl "Carbitol") | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | | |
| Diethylenetriamine | NR | NR | NR | NR | NR |
| Dimethyl Formamide | NR | NR | NR | NR | NR |
| Dimethyl Sulfoxide | | | | | |
| 20% | NR | NR | NR | NR | NR |
| Dioctyl Phthalate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Dipropylene Glycol | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Dodecyl Alcohol (Lauryl Alcohol) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Ethanol (Ethyl Alcohol, Denatured Alcohol) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | | |
| Ethanolamine | PC | PC | PC | PC | PC |
| Ethyl Acetate | NR | NR | NR | NR | NR |
| Ethyl Benzene | 100°F (38°C) | | | | |
| Ethylamine | | | | | |
| 20% | NR | NR | NR | NR | NR |
| Ethylene Glycol | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Ethylene Glycol Monobutyl Ether (Butyl "Cellosolve") | 100°F (38°C) | | | | |
| Ethylene Glycol Monobutyl Ether Acetate (Butyl "Cellosolve" Acetate) | 100°F (38°C) | | | | |
| Ethylenediamine | | | | | |
| 20% | 100°F (38°C) | 100°F (38°C) | | | |
| Fatty Acids (Greater than C6) | 100°F (38°C) | | | | |
| Ferric Chloride | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Ferric Nitrate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Ferric Sulfate | | | | | |
| 20% | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Ferrous Chloride | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |

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|---|--|------------------|-----------------------|-----------------|-------------------|
| | Occasional Contact | Frequent Contact | Secondary Containment | Cargo Immersion | Immersion Service |
| Fluorosilicic Acid (Hydrofluorosilicic Acid) | | | | | |
| 10% | NR | NR | NR | NR | NR |
| Formaldehyde | | | | | |
| 37% | 100°F (38°C) | 100°F (38°C) | | | |
| Formic Acid | | | | | |
| 10% | NR | NR | NR | NR | NR |
| Fructose (non-food contact) ¹ | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Furan | NR | NR | NR | NR | NR |
| Furfural | | | | | |
| 10% | NR | NR | NR | NR | NR |
| Furfuryl Alcohol | 100°F (38°C) | | | | |
| Gasoline (Unleaded) | 100°F (38°C) | | | | |
| Glucose (non-food contact) ¹ | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Glycerin | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Glycolic Acid | | | | | |
| 70% | NR | NR | NR | NR | NR |
| Gold Plating Solution | NR | NR | NR | NR | NR |
| Grape Juice | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Guar Gum (non-food contact) ¹ | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Heptane | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Hexane | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Hexanol | 100°F (38°C) | | | | |
| Hydraulic Fluid (Hydraulic Oil) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Hydrochloric Acid | | | | | |
| 5% | 100°F (38°C) | 100°F (38°C) | | | |
| 10% | 100°F (38°C) | | | | |
| 20% | 100°F (38°C) | | | | |

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|-----------------------|--|------------------|-----------------------|-----------------|-------------------|
| | Occasional Contact | Frequent Contact | Secondary Containment | Cargo Immersion | Immersion Service |
| 28% | 100°F (38°C) | | | | |
| 37% | 100°F (38°C) | | | | |
| Hydrofluoric Acid | | | | | |
| 10% | NR | NR | NR | NR | NR |
| 20% | NR | NR | NR | NR | NR |
| Hydrofluoroboric Acid | | | | | |
| 62% | NR | NR | NR | NR | NR |
| Hydrogen Peroxide | | | | | |
| 30% | 100°F (38°C) | | | | |
| Hydrogen Sulfide | 100°F (38°C) | 100°F (38°C) | | | |
| Iodine | | | | | |
| 5% | 100°F (38°C) | | | | |
| Isobutyl Acetate | 100°F (38°C) | | | | |
| Isobutyl Alcohol | 100°F (38°C) | 100°F (38°C) | | | |
| Isopropyl Acetate | 100°F (38°C) | | | | |
| Isopropyl Alcohol | 100°F (38°C) | 100°F (38°C) | | | |
| Jet A Fuel | PC | PC | PC | PC | PC |
| JP-4 Aviation Fuel | PC | PC | PC | PC | PC |
| JP-5 Aviation Fuel | PC | PC | PC | PC | PC |
| Kaolin | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Kerosene | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Lactic Acid | | | | | |
| 10% | 100°F (38°C) | 100°F (38°C) | | | |
| 85% | 100°F (38°C) | | | | |
| Lauric Acid | PC | PC | PC | PC | PC |
| Lauryl Chloride | 100°F (38°C) | 100°F (38°C) | | | |
| Lead Acetate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Levulinic Acid | NR | NR | NR | NR | NR |

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|---|--|------------------|-----------------------|-----------------|-------------------|
| | Occasional Contact | Frequent Contact | Secondary Containment | Cargo Immersion | Immersion Service |
| Linseed Oil | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Lithium Bromide | PC | PC | PC | PC | PC |
| Lithium Chloride | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Lithium Hydroxide (saturated) | 100°F (38°C) | 100°F (38°C) | | | |
| Lubricating Oil (SAE 5W-40, et al) (Motor Oil) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Magnesium Bisulfite | 100°F (38°C) | 100°F (38°C) | | | |
| Magnesium Chloride | | | | | |
| 50% | PC | PC | PC | PC | PC |
| Magnesium Hydroxide | | | | | |
| 50% | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | | |
| Magnesium Sulfate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Maleic Acid | 100°F (38°C) | 100°F (38°C) | | | |
| Maleic Anhydride | 100°F (38°C) | 100°F (38°C) | | | |
| Mercuric Chloride | 100°F (38°C) | 100°F (38°C) | | | |
| Mercury | NR | NR | NR | NR | NR |
| Methacrylic Acid | NR | NR | NR | NR | NR |
| Methane Gas | NR | NR | NR | NR | NR |
| Methanol (Methyl Alcohol) | 100°F (38°C) | | | | |
| Methyl Acetate | | | | | |
| 20% | NR | NR | NR | NR | NR |
| Methyl Acrylate | 100°F (38°C) | 100°F (38°C) | | | |
| Methyl Amyl Ketone | NR | NR | NR | NR | NR |
| Methyl Ethyl Ketone | NR | NR | NR | NR | NR |
| Methyl Isobutyl Chloride | NR | NR | NR | NR | NR |
| Methyl Isobutyl Ketone | NR | NR | NR | NR | NR |
| Methyl Methacrylate | NR | NR | NR | NR | NR |
| Methyl Propyl Ketone | NR | NR | NR | NR | NR |

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|--|--|------------------|-----------------------|-----------------|-------------------|
| | Occasional Contact | Frequent Contact | Secondary Containment | Cargo Immersion | Immersion Service |
| Methyl tert-Butyl Ether (MTBE) | NR | NR | NR | NR | NR |
| Methylene Chloride | NR | NR | NR | NR | NR |
| Milk (non-food contact) ¹ | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Mineral Oil | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Mineral Spirits | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Molasses (non-food contact) ¹ | PC | PC | PC | PC | PC |
| Morpholine | NR | NR | NR | NR | NR |
| Mustard (non-food contact) ¹ | NR | NR | NR | NR | NR |
| Naphtha | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Naphthalene | NR | NR | NR | NR | NR |
| Naphthenic Acid | PC | PC | PC | PC | PC |
| n-Butyl Acetate (Butyl Acetate) | 100°F (38°C) | | | | |
| n-Butyl Alcohol (1-Butanol) (Butanol (Normal)) | 100°F (38°C) | | | | |
| n-Decyl Alcohol (Decyl Alcohol (1-Decanol)) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Nickel Chloride | PC | PC | PC | PC | PC |
| Nitric Acid | | | | | |
| 10% | 100°F (38°C) | | | | |
| 25% | NR | NR | NR | NR | NR |
| 70% | NR | NR | NR | NR | NR |
| Nitrobenzene | NR | NR | NR | NR | NR |
| n-Methyl-2-Pyrrolidone | NR | NR | NR | NR | NR |
| n-Octyl Alcohol (Octanol) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | | |
| n-Propyl Alcohol (Propyl Alcohol) | 100°F (38°C) | 100°F (38°C) | | | |
| Octane | NR | NR | NR | NR | NR |
| Oleic Acid | PC | PC | PC | PC | PC |

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|---------------------------|--|------------------|-----------------------|-----------------|-------------------|
| | Occasional Contact | Frequent Contact | Secondary Containment | Cargo Immersion | Immersion Service |
| Oxalic Acid | | | | | |
| 10% | 100°F (38°C) | 100°F (38°C) | | | |
| Ozone <2 ppm | NR | NR | NR | NR | NR |
| Palm Oil | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Pentane | NR | NR | NR | NR | NR |
| Perchloroethylene | 100°F (38°C) | | | | |
| Petroleum Ether | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Phenol (Carbolic Acid) | NR | NR | NR | NR | NR |
| Phosphoric Acid | | | | | |
| 5% | 100°F (38°C) | 100°F (38°C) | | | |
| 10% | 100°F (38°C) | 100°F (38°C) | | | |
| 85% | NR | NR | NR | NR | NR |
| Phosphorous | NR | NR | NR | NR | NR |
| Phosphorous Acid | NR | NR | NR | NR | NR |
| Phthalic Acid (all) | 100°F (38°C) | 100°F (38°C) | | | |
| Picric Acid (conc) | NR | NR | NR | NR | NR |
| Pine Oil | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Polyethylene Glycol | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Polypropylene | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Polystyrene | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Polytetrafluoroethane | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Polyvinyl Chloride | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Potash Ore | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Potassium Acetate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Potassium Bromide | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Potassium Carbonate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Potassium Chlorate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |

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|-------------------------|--|------------------|-----------------------|-----------------|-------------------|
| | Occasional Contact | Frequent Contact | Secondary Containment | Cargo Immersion | Immersion Service |
| Potassium Chloride | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Potassium Cyanide | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Potassium Ferricyanide | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Potassium Fluoride | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Potassium Hydroxide | | | | | |
| 50% | PC | PC | PC | PC | PC |
| Potassium Iodide | NR | NR | NR | NR | NR |
| Potassium Nitrate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Potassium Permanganate | 100°F (38°C) | | | | |
| Potassium Persulfate | NR | NR | NR | NR | NR |
| Potassium Sulfate | NR | NR | NR | NR | NR |
| Propionic Acid | | | | | |
| 50% | NR | NR | NR | NR | NR |
| Propylene Glycol | 100°F (38°C) | 100°F (38°C) | | | |
| Pulpmill (Black Liquor) | 100°F (38°C) | 100°F (38°C) | | | |
| Pulpmill (Green Liquor) | 100°F (38°C) | 100°F (38°C) | | | |
| Pulpmill (White Liquor) | 100°F (38°C) | 100°F (38°C) | | | |
| Pyridine | | | | | |
| 20% | NR | NR | NR | NR | NR |
| Silver Nitrate | NR | NR | NR | NR | NR |
| Skydrol | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Sodium Acetate | NR | NR | NR | NR | NR |
| Sodium Aluminate | NR | NR | NR | NR | NR |
| Sodium Bicarbonate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Sodium Bisulfate | | | | | |
| 30% | PC | PC | PC | PC | PC |
| Sodium Bisulfite | | | | | |
| 38% | PC | PC | PC | PC | PC |

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|---|--|------------------|-----------------------|-----------------|-------------------|
| | Occasional Contact | Frequent Contact | Secondary Containment | Cargo Immersion | Immersion Service |
| Sodium Borate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Sodium Bromide (all) | NR | NR | NR | NR | NR |
| Sodium Carbonate (sat'd) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Sodium Carbonate (slurry) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Sodium Chlorate | | | | | |
| 50% | NR | NR | NR | NR | NR |
| Sodium Chloride (sat'd) (Brine, Water (Sea), Salt Brine) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Sodium Chlorite (>6 pH) | NR | NR | NR | NR | NR |
| Sodium Chromate | | | | | |
| 50% | 100°F (38°C) | 100°F (38°C) | | | |
| Sodium Cyanide | | | | | |
| 18% | NR | NR | NR | NR | NR |
| Sodium Dichromate (all) | 100°F (38°C) | 100°F (38°C) | | | |
| Sodium Fluoride | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Sodium Formate | | | | | |
| 50% | PC | PC | PC | PC | PC |
| Sodium Hydrosulfide | | | | | |
| 72% | 100°F (38°C) | 100°F (38°C) | | | |
| Sodium Hydrosulfite | | | | | |
| 10% | 100°F (38°C) | 100°F (38°C) | | | |
| Sodium Hydroxide (Caustic Soda) | | | | | |
| 50% | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Sodium Hypochlorite (Bleach) | | | | | |
| 5% | 100°F (38°C) | 100°F (38°C) | | | |
| 13% | 100°F (38°C) | 100°F (38°C) | | | |
| Sodium Lauryl Sulfate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |

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|---|--|------------------|-----------------------|-----------------|-------------------|
| | Occasional Contact | Frequent Contact | Secondary Containment | Cargo Immersion | Immersion Service |
| Sodium Nitrate (dry) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Sodium Oxalate | | | | | |
| 1% | NR | NR | NR | NR | NR |
| Sodium Phosphate | | | | | |
| 10% | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Sodium Silicate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Sodium Sulfate | | | | | |
| 6% | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Sodium Sulfite | NR | NR | NR | NR | NR |
| Sodium Thiosulfate | | | | | |
| 30% | PC | PC | PC | PC | PC |
| Sodium Tripolyphosphate | | | | | |
| 1% | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Soybean Oil (non-food contact) ¹ | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Stannic Chloride (all) | NR | NR | NR | NR | NR |
| Stannous Chloride (all) | NR | NR | NR | NR | NR |
| Stearic Acid (conc) | NR | NR | NR | NR | NR |
| Styrene | 100°F (38°C) | | | | |
| Sulfamic Acid | | | | | |
| 25% | NR | NR | NR | NR | NR |
| Sulfite Liquor (paper industry) | NR | NR | NR | NR | NR |
| Sulfuric Acid (Sulphuric Acid) | | | | | |
| 5% | PC | PC | PC | PC | PC |
| 10% | PC | PC | PC | PC | PC |
| 30% | 100°F (38°C) | | | | |
| 50% | 100°F (38°C) | | | | |
| 70% | NR | NR | NR | NR | NR |

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|--|--|------------------|-----------------------|-----------------|-------------------|
| | Occasional Contact | Frequent Contact | Secondary Containment | Cargo Immersion | Immersion Service |
| 98% | NR | NR | NR | NR | NR |
| Sulfurous Acid | | | | | |
| 10% | NR | NR | NR | NR | NR |
| Tall Oil | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Tannic Acid | PC | PC | PC | PC | PC |
| Tartaric Acid | PC | PC | PC | PC | PC |
| Tetrachloroethane | NR | NR | NR | NR | NR |
| Tetrachloroethylene | PC | PC | PC | PC | PC |
| Tetrahydrofuran | NR | NR | NR | NR | NR |
| Toluene | PC | PC | PC | PC | PC |
| Transmission Fluid | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Trichloroethylene | NR | NR | NR | NR | NR |
| Trichlorofluoroethane | NR | NR | NR | NR | NR |
| Tricresyl Phosphate | NR | NR | NR | NR | NR |
| Triethanolamine | PC | PC | PC | PC | PC |
| Triethylamine | PC | PC | PC | PC | PC |
| Triethylenetetramine | NR | NR | NR | NR | NR |
| Trisodium Phosphate (Sodium Phosphate (Tribasic)) | | | | | |
| 20% | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Turpentine | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Urea | | | | | |
| 50% | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Urea Ammonium Nitrate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Vegetable Oil (non-food contact) ¹ | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Vinegar (non-food contact) ¹ | NR | NR | NR | NR | NR |
| Vinyl Trichloride | NR | NR | NR | NR | NR |
| Water (deionized, non-potable) (Water (Demineralized, Non-potable)) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |

IMPORTANT: Definitions for the terms and acronyms used in this guide to describe the recommended exposures, along with other important information, can be found on the cover page of this guide or by contacting Tnemec Technical Service. Coatings should not be applied in a chemical exposure environment until the user has thoroughly read and understood the product information and full project details have been discussed with Tnemec Technical Service.

HI-BUILD EPOXOLINE® | SERIES 66

¹ Product is NOT suitable for direct or indirect food contact. Intended Use and temperature information relates to product's performance capabilities only.

² Product is suitable for direct or indirect food contact. Reference the product data sheet for more information.

| Chemical | Intended Use (Maximum Temperature Listed) | | | | |
|--------------------------------|--|------------------|-----------------------|-----------------|-------------------|
| | Occasional Contact | Frequent Contact | Secondary Containment | Cargo Immersion | Immersion Service |
| Water (distilled, non-potable) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Water (fresh, non-potable) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Xylene | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | | |
| Zinc Bromide | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Zinc Chloride | | | | | |
| 40% | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Zinc Phosphate (dry) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |
| Zinc Sulfate | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) | 100°F (38°C) |

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