

Industrial and commercial protective lining applications often have exposure to various chemicals. PipeCast EXT protective lining systems have been specially formulated for exceptional resistance to a wide variety of chemicals. The following chart summarizes the chemical resistance of these products based on immersion testing conducted in our lab. A guide to interpreting the ratings is shown below.

For applications involving chemicals not listed below, please contact your IPP Solutions representative for further information. We are continually adding to our chemical resistance database. **It is important to note that higher service temperatures, length of exposure time and other factors can significantly influence the performance of these linings. Each potential application should be carefully evaluated on a case by case basis. Testing coupons with the actual chemical in question is also highly recommended.**

### CHEMICAL MEDIUM PipeCast EXT

CHEMICAL MEDIUM	PipeCast EXT
<b>ACIDS</b>	
Hydrochloric, 5%	A
Hydrochloric, 10%	A
Hydrochloric, 15%	B
Hydrochloric, 30%	NR
Sulfuric, 20%	A
Sulfuric, 40%	A
Sulfuric, 60%	C
Phosphoric, 10%	A
Phosphoric, 24%	C
<b>ALKALIS</b>	
Detergents	A
Soaps	A
Sodium Hydroxide, 25%	A
Sodium Hydroxide, 50%	B
Ammonium Hydroxide, 10%	A
Ammonium Hydroxide, 20%	A
<b>OXIDIZERS</b>	
Bleach (5% Sodium Hypochlorite)	A
Sodium Hypochlorite, 13%	B
<b>SALTS</b>	
Sea Salt, 25%	A
Ferric Sulfate, 50%	B
Ferric Chloride, 35%	B
Sodium Chloride	B
<b>PETROLEUM / ALIPHATIC PRODUCTS</b>	
Diesel	A
Gasoline, Unleaded	A
Gasoline	C
Gasoline 5% MTBE	B
Heating Oil	A
Hydraulic Fluid	A
JP8	A
Machine Oils	A
Motor Oil	B
Brake Fluid	B

### CHEMICAL MEDIUM PipeCast EXT

CHEMICAL MEDIUM	PipeCast EXT
<b>SOLVENTS</b>	
Chlorinated Solvents >10%	NR
Denatured Alcohol	C
D-Limonene	C
Ketones (Acetone, MEK)	NR
Xylene	NR
Mineral Spirits	A
<b>WATER &amp; WASTEWATER</b>	
Water Room Temperature	A
Water 82°C, 14 Days	A
10% NaCl + Water Room Temperature	A
10% NaCl + Water 40°C, 14 Days	A
Raw Water	A
Distilled Water	A
Sea Water	A
Hydrogen Sulfide Gas	A
Methane Gas	A
Raw Sewage	A
Treated Effluent	A
Activated Sludge	A
<b>OTHERS</b>	
Animal Grease/Fats	A
Antifreeze Solution	A
Caster Oil	A
Corn Oil	A
Diethylene Glycol	A
Diethyl Toluene Diamine	C
Dioctyl Phthalate	A
Methanol	NR

### RATINGS INTERPRETATION

**A:** Suitable for continuous immersion or exposure. Do not see any significant weight gain or swelling and virtually no loss of hardness after full immersion for 6 months at 75°F.

**B:** Suitable for temporary storage or immersion for up to 3 months. Less than 10% weight gain or loss of hardness after full immersion for 30 days at 75°F.

**C:** Suitable for temporary exposure to chemical splash or spill, such as secondary containment. Less than 20% weight gain or loss of hardness after full immersion for 3 days at 75°F.

**NR:** Not recommended for service. Noticeable chemical degradation with more than 20% weight gain and substantial loss of strength and hardness after full immersion for 3 days at 75°F.

**LIMITATIONS:** The data on this chart must be considered as general guidelines only. It contains information to the best of our knowledge and testing. However, such immersion data is subject to varying interpretations. Application methods and conditions can also greatly affect the performance of the products. Since these factors are out of our control, the buyer assumes all risk of use and handling. No warranty, express or implied, is made concerning the use of these products or recommendations and no liability for their use, or inability to use, is accepted. The manufacturer's sole responsibility for claims arising out of breach of warranty, negligence, strict liability or otherwise, is limited to the purchase price and/or replacement of the materials supplied by IPP Solutions, LLC. IPP Solutions, LLC reserves the right to modify this data without previous notice or liability.

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