

## Chemical Resistance PPA 571

- *Prolonged contact* refers to the process where the coating material is immersed in the chemical permanently, or intermittently for long periods of time.
- *Occasional short term contact* refers to the process where the coating might be exposed either once, or intermittently for short periods of time only.
- *Splash* refers to the accidental exposure to chemical splashes, without any deliberate contact.
- NR = Not recommended

	Splash	Occasional short term contact	Prolonged contact
<b>Acetaldehyde (40%)</b>	20	20	20
<b>Acetamide</b>	20	20	NR
<b>Acetic Acid (30%)</b>	60	20	20
<b>Acetic Acid (80%)</b>	60	20	NR
<b>Acetic Acid Glacial</b>	20	NR	NR
<b>Acetic Anhydride</b>	20	20	NR
<b>Acetone</b>	20	20	NR
<b>Acetyl Chloride</b>	20	20	NR
<b>Adipic Acid (20%)</b>	60	60	60
<b>Alcohols</b>	20	20	NR
<b>Allyl Chloride</b>	20	NR	NR
<b>Aluminium Salts soln (15%)</b>	60	60	60
<b>Ammonia Soln (conc)</b>	20	NR	NR
<b>Ammonia Dilute (10%)</b>	20	20	20
<b>Amyl Acetate</b>	20	20	NR
<b>Amyl Chloride</b>	20	20	NR
<b>Aniline</b>	20	20	20
<b>Arklone (Cleaning Solvent)</b>	20	NR	NR
<b>Aviation Fuel</b>	20	NR	NR
<b>Barium salts soln (15%)</b>	60	60	60
<b>Benzaldehyde</b>	20	20	NR
<b>Benzoic acid (20%)</b>	60	60	60
<b>Bleach (Na hypochlorite 12%)</b>	20	NR	NR
<b>Borax</b>	60	60	60
<b>Boric acid</b>	60	60	60
<b>Brine (5%)</b>	60	60	60
<b>Brine (15%)</b>	60	60	60

<b>Bromine water</b>	20	NR	NR
<b>Butadiene</b>	20	NR	NR
<b>Butane</b>	20	20	20
<b>Butandiol</b>	20	20	20
<b>Butyl Acetate</b>	20	20	20
<b>Butyl Chloride</b>	20	20	NR
<b>Calcium salts soln (15%)</b>	60	60	60
<b>Calcium Hydroxide (30%)</b>	20	20	NR
<b>Calcium Hypochlorite (10%)</b>	20	NR	NR
<b>Carbon disulphide</b>	20	NR	NR
<b>Carbonic acid</b>	60	60	60
<b>Caustic soda (See Sodium Hydroxide)</b>	20	NR	NR
<b>Carbon tetrachloride</b>	20	NR	NR
<b>Cellosolve Acetate</b>	20	20	20
<b>Chlorine in sea water (5 ppm)</b>	20	20	20
<b>Chlorine water (0.7g/l)</b>	20	NR	NR
<b>Chlorobenzene</b>	20	NR	NR
<b>Chloroform</b>	20	NR	NR
<b>Chromic acid (15%)</b>	20	NR	NR
<b>Chromic acid (25%)</b>	20	NR	NR
<b>Citric Acid (20%)</b>	60	60	60
<b>Copper salt soln (15%)</b>	60	60	60
<b>Detergent (30%)</b>	60	60	60
<b>Detergent (70%)</b>	20	20	20
<b>Detergent Powder (dry)</b>	60	60	60
<b>Dibutylphthallate</b>	20	20	20
<b>Dichloroethylene</b>	20	NR	NR
<b>Diethylamine</b>	20	NR	NR
<b>Diethylene Glycol</b>	20	20	20
<b>Diethylether</b>	20	NR	NR
<b>Dimethylamine (20%)</b>	20	NR	NR
<b>Dimethylformamide</b>	20	20	NR
<b>Dioxane 1.4</b>	20	NR	NR
<b>Ethane</b>	20	-	-
<b>Ethers</b>	20	NR	NR
<b>Ethyl acetate</b>	20	20	20
<b>Ethyl Alcohol (ethanol)</b>	20	20	NR
<b>Ethyl chloride</b>	20	NR	NR
<b>Ethylene Bromide</b>	20	NR	NR
<b>Ethylene Chloride</b>	20	NR	NR
<b>Ethylene Diamine</b>	20	NR	NR
<b>Ethylene Dichloride</b>	20	NR	NR

<b>Ethylene Glycol</b>	20	NR	NR
<b>Fluorine</b>	NR	NR	NR
<b>Formaldehyde (1%)</b>	20	20	20
<b>Formaldehyde (20 w/w)</b>	20	20	20
<b>Formaldehyde 10% (Formalin)</b>	20	20	20
<b>Formic acid (20%)</b>	20	20	20
<b>Glucose</b>	60	60	60
<b>Glycerol (Glycerine)</b>	60	60	60
<b>Genklene</b>	20	NR	NR
<b>Heptane</b>	20	20	20
<b>Hexane</b>	20	20	20
<b>Hydrobromic acid (5%)</b>	20	20	20
<b>Hydrobromic acid (30%)</b>	20	20	NR
<b>Hydrochloric acid 5% (sg 1.03)</b>	60	60	60
<b>Hydrochloric acid (10%)</b>	20	20	20
<b>Hydrochloric acid (20%)</b>	20	20	NR
<b>Hydrochloric acid 37% (sg 1.18)</b>	20	20	NR
<b>Hydrocyanic acid (5%)</b>	60	60	60
<b>Hydrofluoric acid 5% (sg 1.02)</b>	20	20	20
<b>Hydrofluoric acid 30% (sg 1.12)</b>	20	20	20
<b>Hydrofluoric acid (40%)</b>	20	NR	NR
<b>Hydrofluoric acid (70%)</b>	NR	NR	NR
<b>Hydrofluoric acid (100%)</b>	NR	NR	NR
<b>Hydrogen Peroxide (10%)</b>	20	NR	NR
<b>Hydrogen Peroxide (90%)</b>	NR	NR	NR
<b>Hydrogen Sulphide (5%)</b>	60	60	60
<b>Hypochlorous acid (5%)</b>	20	NR	NR
<b>Iodine Soln (0.7g/1)</b>	20	NR	NR
<b>Isopropanol (70%)</b>	20	20	NR
<b>isopropylacetate</b>	20	20	NR
<b>Iron Salt (10%)</b>	60	60	60
<b>Kerosene</b>	20	20	20
<b>Ketones</b>	20	20	NR
<b>Lactic acid (20%)</b>	60	60	60
<b>Linoleic acid</b>	20	20	20
<b>Linseed Oil</b>	20	20	20
<b>LPG</b>	20	20	20
<b>Machine Oil</b>	20	20	20
<b>Magnesium Salt solns (15%)</b>	60	60	60
<b>Mercuric Salt solns (15%)</b>	60	60	60
<b>Methane</b>	20	-	-
<b>Methanol</b>	20	20	NR

<b>Methyl Acetate</b>	20	20	20
<b>Methyl Bromide</b>	20	20	NR
<b>Methyl Cellosolve</b>	20	20	20
<b>Methyl Ethyl Ketone</b>	20	20	NR
<b>Methyl Isobutyl Ketone</b>	20	20	NR
<b>Methyl Dichloride</b>	20	NR	NR
<b>Methylene Chloride (100%)</b>	20	NR	NR
<b>Mineral Oil</b>	20	20	20
<b>Naphthalene</b>	20	20	NR
<b>Nickel Salt solns (15%)</b>	60	60	60
<b>Nitric acid (5%)</b>	20	20	20
<b>Nitric acid 10% (sg 1.05)</b>	20	20	NR
<b>Nitric acid (20%)</b>	20	20	NR
<b>Nitric acid 30% (sg 1.18)</b>	20	NR	NR
<b>Nitric acid (70%)</b>	20	NR	NR
<b>nitric acid fuming (s.g. 1.51)</b>	NR	NR	NR
<b>Nitrobenzene</b>	20	NR	NR
<b>Nitrous acid (10%)</b>	20	20	20
<b>Octane</b>	20	20	20
<b>Oleic acid</b>	20	20	NR
<b>Ozone</b>	20	20	20
<b>Paraffin</b>	20	20	20
<b>Peracetic acid</b>	20	20	NR
<b>Petrol</b>	20	20	20
<b>Phenol (10%)</b>	20	20	NR
<b>Phenol in water (20 w/w)</b>	20	20	20
<b>Phosphoric acid 20% (sg 1.1)</b>	60	60	60
<b>Phosphoric acid (30%)</b>	20	20	20
<b>Phosphoric acid (85%)</b>	20	NR	NR
<b>Phosphoric acid conc (sg 1.87)</b>	20	NR	NR
<b>Polyglycol Ethers</b>	20	NR	NR
<b>Potassium salt solns (15%) (other than Permanganate – see below)</b>	60	60	60
<b>Potassium Hypochlorite (15%)</b>	20	NR	NR
<b>Potassium Permanganate (15%)</b>	20	NR	NR
<b>Potassium Hydroxide (5%)</b>	20	20	NR
<b>Potassium Hydroxide (10%)</b>	20	20	NR
<b>Potassium Hydroxide (30%)</b>	20	NR	NR
<b>Propylene Dichloride</b>	20	NR	NR
<b>Rubber Latex</b>	60	60	60
<b>Silver Nitrate (15%)</b>	60	60	60
<b>Slurry-cow/pig/poultry</b>	30	30	30

<b>Sodium Carbonate (2%)</b>	60	60	60
<b>Sodium Carbonate (15%)</b>	60	60	60
<b>Sodium Chloride (5%)</b>	60	60	60
<b>Sodium Chloride (10%)</b>	60	60	60
<b>Sodium Hydroxide (1%)</b>	20	20	20
<b>Sodium Hydroxide (5%)</b>	20	20	NR
<b>Sodium Hydroxide (10%)</b>	20	20	NR
<b>Sodium Hydroxide (30%)</b>	20	20	NR
<b>Sodium Hypochlorite 12% C1</b>	20	NR	NR
<b>Sodium Sulphate (15%)</b>	60	60	60
<b>Starch</b>	60	60	60
<b>Sulphur Dioxide Wet Grades 100%</b>	20	NR	NR
<b>Sulphur Dioxide Wet Grades 5%</b>	20	20	20
<b>Sulphuric acid (10%)</b>	20	20	20
<b>Sulphuric acid 34% (sg 1.25)</b>	20	20	20
<b>Sulphuric acid (50%)</b>	20	20	20
<b>Sulphuric acid 100% (sg 1.83)</b>	20	NR	NR
<b>Sulphurous acid (15%)</b>	20	20	20
<b>Tetrachloroethylene</b>	20	20	NR
<b>Tetrahydrofuran</b>	20	NR	NR
<b>Toluene</b>	20	NR	NR
<b>Trichloroacetic acid (10%)</b>	20	20	NR
<b>Trichloroacetic acid (100%)</b>	20	NR	NR
<b>Trichlorethylene</b>	20	20	NR
<b>Trichlorophenol</b>	20	20	NR
<b>Turpentine (White Spirit)</b>	20	20	20
<b>Water</b>	60	60	60
<b>Xylene</b>	20	NR	NR
<b>Zinc Chloride</b>	60	60	60
<b>Zinc Sulphate</b>	60	60	60

## QUALITY

Plascoat is committed to the manufacture and supply of a wide range of thermoplastic coating powders. This service is backed by the unrivalled experience of over 40 years of powder coating application. With a policy of continuous improvement to its range of products. Plascoat reserves the right to alter or amend any item. Stringent quality control procedures are carried out at every relevant stage of manufacture and Plascoat operates a quality management system approved by BSI in accordance with ISO 9001.

Plascoat can also offer, through its many factories in Europe, specialist plastic coating equipment, an extensive custom coating service and a size reduction service for plastics and other materials.

Plascoat is a subsidiary member of the IPT Group of companies.

Plascoat is a UK registered trade name.

***It should be appreciated that the information given here is, to the best of our knowledge, true and accurate. However, since conditions under which our materials may be used are beyond our control, recommendations are made without warranty or guarantee.***