bluchem
Anti-Corrosion Coatings

# BluGuard™ Coating Solutions

## CHEMICAL RESISTANCE GUIDE

The binding materials of BluGuard™ Coil Protection from Bluchem have been tested against various conditions that HVAC/R equipment might be exposed to. Limits are expressed in terms of vapour phase at ambient temperature. The guide is for general reference. Bluchem should be consulted before exposure to chemicals not mentioned, fluids, high temperatures or concentrations above the guide.

| | | | < 10 ppm | < 100 ppm | All |
|---|---|---|---|---|---|
| ALKALINES | 1 | Ammonia | | ☑ | |
| | 2 | Ammoniac solution | | | ☑ |
| | 3 | Caustic soda | ☑ | | |
| | 4 | Sodium hydroxide | | ☑ | |
| | 5 | Caustic potassium | ☑ | | |
| | 6 | Potassium hydroxide | | | ☑ |
| | 7 | Lithium hydroxide | ☑ | | |
| | 8 | Calcium hydroxide | | | ☑ |
| | 9 | Magnesium hydroxide | | | ☑ |
| ALCOHOLS | 10 | Methanol | ☑ | | |
| | 11 | Ethanol | | ☑ | |
| | 12 | Isopropanol | | | ☑ |
| | 13 | Butanol | | | ☑ |
| | 14 | Amyl alcohol | | | ☑ |
| | 15 | Benzyl alcohol | | | ☑ |
| | 16 | Diaceton alcohol DAA | | | ☑ |
| | 17 | Glycerine | | | ☑ |
| | 18 | Propanol | | | ☑ |
| | 19 | Pentanol | | | ☑ |
| ALIPHATIC HYDROCARBON | 20 | White spirit | | | ☑ |
| | 21 | Shellsol TD | | | ☑ |
| | 22 | Bitumen | | | ☑ |
| | 23 | Isopar G | | | ☑ |
| | 24 | Paraffin | | | ☑ |
| AMINES | 25 | Triethanolamine | | | ☑ |
| | 26 | Aniline sulphate | | | ☑ |
| | 27 | Hexamethylenetetraamine | | | ☑ |
| | 28 | Hexaandiamine | ☑ | | |
| | 29 | Phenyldiamine | | | ☑ |
| | 30 | Cyclohexylemine | ☑ | | |
| | 31 | Triethylamine | | | ☑ |
| | 32 | Aniline | ☑ | | |
| | 33 | Aniline chloride | ☑ | | |
| | 34 | Methylamine | | | ☑ |
| | 35 | Isoferondiamine | | | ☑ |
| | 36 | Diphenylmethanediamine | | | ☑ |
| INORGANIC | 37 | Arsenic | ☑ | | |
| | 38 | Boric acid | | ☑ | |
| | 39 | Hydrogen carbonate | | | ☑ |
| | 40 | Chromic acid | | ☑ | |
| | 41 | Bromic acid | ☑ | | |
| | 42 | Hydrochloric acid | ☑ | | |
| | 43 | Hydrogen fluoride | | ☑ | |
| | 44 | Hydrogen sulphide | | | ☑ |
| | 45 | Nitric acid | ☑ | | |
| | 46 | Nitrous acid | | | ☑ |
| | 47 | Sulphuric acid | | | ☑ |
| | 48 | Sulphurous acid | | | ☑ |
| | 49 | Phosphoric acid | | ☑ | |
| | 50 | Perchloric acid | ☑ | | |
| | 51 | Selenic acid | | | ☑ |

| | | | < 10 ppm | < 100 ppm | All |
|---|---|---|---|---|---|
| AROMATIC HYDROCARBONS | 52 | Xylene | | | ☑ |
| | 53 | Toluene | | | ☑ |
| | 54 | Asphalt | | | ☑ |
| | 55 | Anthracene | | | ☑ |
| | 56 | Benzapherene | | | ☑ |
| | 57 | Gumlac | | | ☑ |
| | 58 | Benzene | | | ☑ |
| | 59 | Naphtha | | | ☑ |
| | 60 | Naphtalene | | | ☑ |
| | 61 | Terpenes | | | ☑ |
| FUELS & OILS | 62 | Diesel | | | ☑ |
| | 63 | Fuel oil | | | ☑ |
| | 64 | Petrol | | | ☑ |
| | 65 | Super petrol | | | ☑ |
| | 66 | Lubricating oils | | | ☑ |
| | 67 | Kerosene | | | ☑ |
| | 68 | Sferic oils | | | ☑ |
| | 69 | LPG | | | ☑ |
| | 70 | Mineral oils | | | ☑ |
| | 71 | Animal oils | | | ☑ |
| | 72 | Ethric oils | | | ☑ |
| | 73 | Vegitablel oils | | | ☑ |
| | 74 | Butane | | | ☑ |
| | 75 | Acetylene | | | ☑ |
| | 76 | Methane | | | ☑ |
| ETHERS | 77 | Diethyl ether | ☑ | | |
| | 78 | Acetic ether | ☑ | | |
| ESTERS | 79 | Ethyl acetate RR | | ☑ | |
| | 80 | Amyl acetate | | | ☑ |
| | 81 | Propyl acetate | | | ☑ |
| | 82 | Butyl oxalate | | | ☑ |
| | 83 | Butyl acetate | | | ☑ |
| | 84 | Butyl propionate | | | ☑ |
| | 85 | Ethyl formiate | | | ☑ |
| | 86 | Ethyl benzoate | | | ☑ |
| HALOGENATED HYDROCARBONS | 87 | 1.1.1. Trichloroethelene | ☑ | | |
| | 88 | Methylenechloride | ☑ | | |
| | 89 | Methylbromide | ☑ | | |
| | 90 | Tetrachloromethane | ☑ | | |
| | 91 | Dichloromethane | ☑ | | |
| | 92 | Trichloroethylene | ☑ | | |
| | 93 | Perchloroethylene | ☑ | | |
| | 94 | Tetraiodicmethane | ☑ | | |
| | 95 | PCB | ☑ | | |

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| | | | < 10 ppm | < 100 ppm | All |
|---|---|---|---|---|---|
| KETONES & ALDEHYDES | 96 | Acetone | | ☑ | |
| | 97 | Aceetaldehyde | ☑ | | |
| | 98 | Benzaldehyde | | ☑ | |
| | 99 | Formaldehyde | ☑ | | |
| | 100 | Salicylaldehyde | ☑ | | |
| | 101 | Diisobutylketone | ☑ | | |
| | 102 | Methylisobutylketone | ☑ | | |
| | 103 | Methylethylketone | ☑ | | |
| | 104 | Butanol | ☑ | | |
| | 105 | Crotonaldehyde | ☑ | | |
| SOFTENERS | 106 | Palatinol C | | | ☑ |
| | 107 | Chloroparaffine 5XX vl. | | | ☑ |
| | 108 | Dioctylphosphate | | | ☑ |
| | 109 | Cibutylphosphate | | | ☑ |
| | 110 | Desavin | | | ☑ |
| | 111 | Disflamol TOF | | | ☑ |
| | 112 | Mesamol | | | ☑ |
| | 113 | Dinonylphenol | | | ☑ |
| ORGANIC | 114 | Acetic acid | | ☑ | |
| | 115 | Benzoic acid | | | ☑ |
| | 116 | Lactic acid | | | ☑ |
| | 117 | Phenols | | | ☑ |
| | 118 | Citric acid | | ☑ | |
| | 119 | Fatty acids | | | ☑ |
| | 120 | Formic acid | ☑ | | |
| | 121 | Hydrocyanic acid | | | ☑ |
| | 122 | Malic acid | | | ☑ |
| | 123 | Margaric acid | | | ☑ |
| | 124 | Picric acid | | | ☑ |
| | 125 | Oleic acid | | | ☑ |
| | 126 | Oxalic acid | | | ☑ |
| | 127 | Silphamic acid | | | ☑ |
| | 128 | Palmitic acid | | | ☑ |
| | 129 | Tannin | | | ☑ |
| | 130 | Phthalic acid | | | ☑ |
| | 131 | Propionic acid | ☑ | | |
| | 132 | Salicylic acid | | | ☑ |
| | 133 | Stearic acid | | | ☑ |
| | 134 | Valeric acid | | | ☑ |

| | | | < 10 ppm | < 100 ppm | All |
|---|---|---|---|---|---|
| SALTS & WATER SOLUTIONS | 135 | Sodium salts | | | ☑ |
| | 136 | Potassium salts | | | ☑ |
| | 137 | Calcium salts | | | ☑ |
| | 138 | Aluminium salts | | | ☑ |
| | 139 | Ammonium salts | | | ☑ |
| | 140 | Barium salts | | | ☑ |
| | 141 | Copper salts | | | ☑ |
| | 142 | Lead salts | | | ☑ |
| | 143 | Lithium salts | | | ☑ |
| | 144 | Magnesium salts | | | ☑ |
| | 145 | Mercury salts | | | ☑ |
| | 146 | Lithopone | | | ☑ |
| | 147 | Arsenious compounds | | | ☑ |
| | 148 | Hydroquinone | | | ☑ |
| | 149 | Iron salts | | | ☑ |
| | 150 | Process water | | | ☑ |
| | 151 | Rain water | | | ☑ |
| | 152 | Sea water | | | ☑ |
| | 153 | Heavy water | | | ☑ |
| | 154 | Zinc salts | | | ☑ |
| | 155 | Tin salts | | | ☑ |
| | 156 | Silicon salts | | | ☑ |
| | 157 | Cement | | | ☑ |
| | 158 | Quartz | | | ☑ |
| | 159 | Dolomite | | | ☑ |
| OTHER | 160 | Carbon disulphide | | ☑ | |
| | 161 | Carbon monoxide | | | ☑ |
| | 162 | Carbon dioxide | | | ☑ |
| | 163 | Nitrogen | | | ☑ |
| | 164 | Nitrogen monoxide | | | ☑ |
| | 165 | Nitrogen dioxide | | | ☑ |
| | 166 | Hydrogen peroxide | | ☑ | |
| | 167 | Chlorine | ☑ | | |
| | 168 | Iodine | ☑ | | |
| | 169 | Iodine tincture | | ☑ | |
| | 170 | Bromic | ☑ | | |
| | 171 | East-Indian ink | | | ☑ |
| | 172 | Phosphor | | | ☑ |
| | 173 | Diphosphorpentoxyde | ☑ | | |
| | 174 | Zinc | | | ☑ |
| | 175 | Mercury | | | ☑ |
| | 176 | Sulphur | | | ☑ |
| | 177 | Sulphur dioxide | | | ☑ |
| | 178 | Antimony | | | ☑ |
| | 179 | Indole | | | ☑ |
| | 180 | Nitroglycerine | | | ☑ |
| | 181 | Hydrogen | | | ☑ |
| | 182 | Epoxy resins | | | ☑ |
| | 183 | Isocyanate | | | ☑ |
| | 184 | Thioureum | | | ☑ |
| | 185 | Carbon | | | ☑ |
| | 186 | Cellulose | | | ☑ |
| | 187 | Cellulose acetate | | | ☑ |


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