

# CHEMICAL RESISTANCE OF BELZONA® 1111 (Super Metal)

FN10229



	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	Other
Inorganic Acids	Carbonic acid	H <sub>2</sub> CO <sub>3</sub> (463-79-6)	-	Ex	-
	Fluorosilicic acid	H <sub>2</sub> SiF <sub>6</sub> (16961-83-4)	-	M	-
	Hydrobromic acid	HBr (10035-10-6)	10%	Ex	-
	Hydrochloric acid	HCl (7647-01-0)	35%	M	-
			20%	G	-
			10%	Ex	-
	Nitric acid	HNO <sub>3</sub> (7697-37-2)	50%	P	-
			20%	G	-
			10%	G	-
Nitrous acid	HNO <sub>2</sub> (7782-77-6)	20%	Ex	-	
Oleum		-	P	-	
Phosphoric acid (orthophosphoric acid)	H <sub>3</sub> PO <sub>4</sub> (7664-38-2)	20%	G	-	
		10%	G	-	
		5%	Ex	-	
Sulfuric acid	H <sub>2</sub> SO <sub>4</sub> (7664-93-9)	98%	P	-	
		50%	M	-	
		20%	G	-	
		10%	Ex	-	
Organic Acids	Acetic acid (ethanoic acid)	CH <sub>3</sub> COOH (64-19-7)	50%	P	-
			20%	M	-
			10%	M	-
	Chloroacetic acid	ClCH <sub>2</sub> COOH (79-11-8)	-	M	-
	Chlorosulfonic acid (sulfurochloridic acid)	HSO <sub>3</sub> Cl (7790-94-5)	-	M	-
	Citric acid	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub> (77-92-9)	-	G	-
	Cresylic acid (cresol)	C <sub>7</sub> H <sub>8</sub> O (1319-77-3)	-	P	-
	Formic acid (methanoic acid)	HCOOH (64-18-6)	20%	M	-
10%			M	-	
Lactic acid (2-hydroxypropanoic acid)	CH <sub>3</sub> CH(OH)(COOH) (50-21-5/79-33-4/10326-41-7)	10%	G	-	
Phenol	C <sub>6</sub> H <sub>5</sub> OH (108-95-2)	80%	P	-	
Alcohols	n-Butanol (butyl alcohol)	C <sub>4</sub> H <sub>9</sub> OH (71-36-3)	-	Ex	-
	Ethanol (ethyl alcohol)	CH <sub>3</sub> CH <sub>2</sub> OH (64-17-5)	-	G	-
	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	(CH <sub>2</sub> OH) <sub>2</sub> (107-21-1)	-	Ex	-
	Glycerol (glycerin, propane-1,2,3-triol)	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub> OH (56-81-5)	-	Ex	-
	Higher alcohols	C <sub>n</sub> H <sub>(2n+1)</sub> OH where n > 2	-	Ex	-

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Good	G	Suitable for applications involving immersion for short periods, splashing and contact with fumes.
Moderate	M	Suitable for use in environments contaminated by the chemical or in situations where accidental splashing can be removed either by cleaning or in the case of volatile solvents, by evaporation.
Poor	P	Not suitable for any applications involving contact with the chemical itself or fumes evolved from it.
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Alcohols continued	Methanol (methyl alcohol)	CH <sub>3</sub> OH (67-56-1)	-	G	-
	2-Methoxyethanol	C <sub>3</sub> H <sub>8</sub> O <sub>2</sub> (109-86-4)	-	Ex	-
	Propan-1-ol (Propyl alcohol)	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> OH (71-23-8)	-	Ex	-
	Propylene glycol (1,2-Propanediol)	CH <sub>3</sub> CH(OH)CH <sub>2</sub> OH (57-55-6)	-	Ex	-
	Secondary alcohols	R <sub>1</sub> R <sub>2</sub> CHOH	-	Ex	-
	Tertiary alcohols	R <sub>1</sub> R <sub>2</sub> R <sub>3</sub> COH	-	Ex	-
Alkalis	Ammonia	NH <sub>3</sub> (7664-41-7)	30%	G	-
			20%	Ex	-
			10%	Ex	-
	Barium hydroxide	Ba(OH) <sub>2</sub> (17194-00-2)	-	Ex	-
	Calcium hydroxide (lime water)	Ca(OH) <sub>2</sub> (1305-62-0)	-	Ex	-
	Magnesium hydroxide (milk of magnesia)	Mg(OH) <sub>2</sub> (1309-42-8)	-	Ex	-
Potassium hydroxide (caustic potash)	KOH (1310-58-3)	40%	G	-	
		20%	Ex	-	
		10%	Ex	-	
Sodium hydroxide (caustic soda)	NaOH (1310-73-2)	50%	Ex	-	
		40%	Ex	-	
		20%	Ex	-	
Amines & Amides	Aniline (Phenylamine)	C <sub>6</sub> H <sub>5</sub> NH <sub>2</sub> (62-53-3)	-	M	-
	Diethanolamine	HN(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>2</sub> (111-42-2)	-	Ex	-
	Diethylamine	CH <sub>3</sub> CH <sub>2</sub> NHCH <sub>2</sub> CH <sub>3</sub> (109-89-7)	-	P	-
	Dimethylformamide	(CH <sub>3</sub> ) <sub>2</sub> NC(O)H (68-12-2)	-	P	-
	Methylamine (25% in water)	CH <sub>3</sub> NH <sub>2</sub> (74-89-5)	-	Ex	-
	Pyridine	C <sub>5</sub> H <sub>5</sub> N (110-86-1)	-	P	-
	Triethanolamine (TEA) (2,2',2''-nitrilotriethanol)	N(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>3</sub> (102-71-6)	-	Ex	-
Beverages & Foodstuffs	Beer		-	Ex	-
	Cider		-	Ex	-
	Citrus juices		-	Ex	-
	Fermentation liquor		-	Ex	-
	Glucose		-	Ex	-
	Milk		-	G	-
	Sugar solution		-	Ex	-
	Vinegar		-	G	-
Whisky and Wine		-	M	-	

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Esters & Ethers	Amyl acetate	CH <sub>3</sub> COO(CH <sub>2</sub> ) <sub>4</sub> CH <sub>3</sub> (628-63-7)	-	Ex	-
	Butyl acetate	C <sub>6</sub> H <sub>12</sub> O <sub>2</sub> (123-86-4)	-	Ex	-
	Dibutyl adipate	[CH <sub>2</sub> CH <sub>2</sub> CO <sub>2</sub> (CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub> ] <sub>2</sub> (105-99-7)	-	Ex	-
	Dibutyl phthalate	C <sub>16</sub> H <sub>22</sub> O <sub>4</sub> (84-74-2)	-	Ex	-
	Dibutyl sebacate	C <sub>18</sub> H <sub>34</sub> O <sub>4</sub> (109-43-3)	-	Ex	-
	Diocetyl adipate	C <sub>22</sub> H <sub>42</sub> O <sub>4</sub> (123-79-5)	-	Ex	-
	Diocetyl phthalate	C <sub>6</sub> H <sub>4</sub> (C <sub>8</sub> H <sub>17</sub> COO) <sub>2</sub> (117-81-7)	-	Ex	-
	Diocetyl sebacate	(CH <sub>2</sub> ) <sub>8</sub> (COOC <sub>8</sub> H <sub>17</sub> ) <sub>2</sub>	-	Ex	-
	Diethyl ether	(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> O (60-29-7)	-	Ex	-
	Diphenyl isodecyl phosphate	C <sub>22</sub> H <sub>31</sub> O <sub>4</sub> P (29761-21-5)	-	Ex	-
	Ethyl acetate	CH <sub>3</sub> COOCH <sub>2</sub> CH <sub>3</sub> (141-78-6)	-	Ex	-
	Isopropyl ether	C <sub>6</sub> H <sub>14</sub> O (108-20-3)	-	Ex	-
	Methyl acetate	CH <sub>3</sub> COOCH <sub>3</sub> (79-20-9)	-	Ex	-
	Gases	Carbon dioxide (dry)	CO <sub>2</sub> (124-38-9)	-	Ex
Carbon monoxide		CO (630-08-0)	-	Ex	-
Chlorine (dry)		Cl <sub>2</sub> (7782-50-5)	-	Ex	-
Hydrogen		H <sub>2</sub> (1333-74-0)	-	Ex	-
Natural Gas (Methane)		CH <sub>4</sub>	-	Ex	-
Nitrogen		N <sub>2</sub> (7727-37-9)	-	Ex	-
Nitrous oxide (dinitrogen monoxide)		N <sub>2</sub> O (10024-97-2)	-	Ex	-
Ozone (dry)		O <sub>3</sub> (10028-15-6)	-	Ex	-
Ozone (aqueous solution)			-	M	-
Sulfur dioxide		SO <sub>2</sub> (7446-09-5)	-	Ex	-
Sulfur trioxide (sulfuric anhydride)		SO <sub>3</sub> (7446-11-9)	-	Ex	-

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Halocarbons	Carbon tetrachloride	CCl <sub>4</sub> (56-23-5)	-	G	-
	Chlorobenzene	C <sub>6</sub> H <sub>5</sub> Cl (108-90-7)	-	G	-
	Chloroform	CHCl <sub>3</sub> (67-66-3)	-	G	-
	Dry cleaning fluids		-	G	-
	Methylene chloride (dichloromethane)	CH <sub>2</sub> Cl <sub>2</sub> (75-09-2)	-	P	-
	Perchloroethylene (tetrachloroethylene)	Cl <sub>2</sub> C=CCl <sub>2</sub> (127-18-4)	-	G	-
	1,1,1, - Trichloroethane (methyl chloroform)	CH <sub>3</sub> CCl <sub>3</sub> (71-55-6)	-	G	-
Hydrocarbons	Aviation fuel (AVCAT, AVGAS, AVTAG, AVTUR)	N/A	-	Ex	-
	Benzene (benzol)	C <sub>6</sub> H <sub>6</sub> (71-43-2)	-	Ex	-
	Cyclohexane	C <sub>6</sub> H <sub>12</sub> (110-82-7)	-	Ex	-
	Gasoline – Ethanol free (Petrol)		-	Ex	-
	Heptane	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> (142-82-7)	-	Ex	-
	Hexane	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> (110-54-3)	-	Ex	-
	Isooctane (2,2,4-trimethylpentane)	(CH <sub>3</sub> ) <sub>3</sub> CCH <sub>2</sub> CH(CH <sub>3</sub> ) <sub>2</sub> (540-84-1)	-	Ex	-
	Kerosene	N/A (8008-20-6)	-	Ex	-
	Paraffin	N/A (8002-74-2)	-	Ex	-
	Pentane	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> (109-66-0)	-	Ex	-
	Styrene	C <sub>6</sub> H <sub>5</sub> CH=CH <sub>2</sub> (100-42-5)	-	Ex	-
	Toluene (methylbenzene, phenylmethane, toluol)	C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub> (108-88-3)	-	Ex	-
	White Spirit (Stoddard solvent, Mineral spirits)	(8052-41-3)	-	Ex	-
Xylene (dimethyl benzene, xylol)	C <sub>6</sub> H <sub>4</sub> (CH <sub>3</sub> ) <sub>2</sub> (95-47-6/108-38-3/106-42-3/1330-20-7)	-	Ex	-	
Ketones	Acetone	(CH <sub>3</sub> ) <sub>2</sub> CO (67-64-1)	-	M	-
	Methyl ethyl ketone (MEK, butanone)	CH <sub>3</sub> C(O)CH <sub>2</sub> CH <sub>3</sub> (78-93-3)	-	M	-
Miscellaneous	Brake fluid		-	Ex	-
	Drilling mud		-	Ex	-
	Emulsion paint		-	Ex	-
	Fertilizer solutions		-	Ex	-
	Grease		-	Ex	-
	Ink (water based)		-	Ex	-

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Miscellaneous continued	Mercury	Hg	-	Ex	-
	Mine waters (acid)		-	Ex	-
	Oil/water mixtures		-	Ex	-
	Water, distilled		-	Ex	-
	Water, fresh		-	Ex	-
	Water, sea		-	Ex	-
Oils - Mineral	Bunker oils (fuel oils)		-	Ex	-
	Crude oil		-	Ex	-
	Cutting oils, water emulsions		-	Ex	-
	Diesel oil		-	Ex	-
	Lubricating oil		-	Ex	-
	Transformer oil		-	Ex	-
Oils - Vegetable/ Animal	Castor oil		-	Ex	-
	Coconut oil		-	Ex	-
	Cod liver oil		-	Ex	-
	Corn oil		-	Ex	-
	Linseed oil		-	Ex	-
	Olive oil		-	Ex	-
Salts	Aluminum chloride (dry)	AlCl <sub>3</sub> (7446-70-0)	-	Ex	-
	Aluminum sulfate	Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> (10043-01-3)	-	Ex	-
	Alums		-	Ex	-
	Ammonium bicarbonate	(NH <sub>4</sub> )HCO <sub>3</sub> (1066-33-7)	-	Ex	-
	Ammonium carbonate	(NH <sub>4</sub> ) <sub>2</sub> CO <sub>3</sub> (506-87-6)	-	Ex	-
	Ammonium chloride	NH <sub>4</sub> Cl (12125-02-9)	-	Ex	-
	Ammonium monophosphate	NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub> (7722-76-1)	-	Ex	-
	Ammonium phosphate (dibasic)	(NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub> (7783-28-0)	-	Ex	-
	Ammonium phosphate (tribasic)	(NH <sub>4</sub> ) <sub>3</sub> PO <sub>4</sub> (10361-65-6)	-	Ex	-
	Ammonium nitrate	NH <sub>4</sub> NO <sub>3</sub> (6484-52-2)	-	Ex	-
	Ammonium sulfate	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> (7783-20-2)	-	Ex	-
	Antimony trichloride	SbCl <sub>3</sub> (10025-91-9)	-	Ex	-
	Barium carbonate	BaCO <sub>3</sub> (513-77-9)	-	Ex	-
	Barium chloride	BaCl <sub>2</sub> (10361-37-2)	-	Ex	-
	Barium sulfate	BaSO <sub>4</sub> (7727-43-7)	-	Ex	-
	Brines		-	Ex	-
	Calcium bisulfite	Ca(HSO <sub>3</sub> ) <sub>2</sub> (13780-03-5)	-	Ex	-
	Calcium carbonate	CaCO <sub>3</sub> (471-34-1)	-	Ex	-

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Salts continued	Calcium chloride	CaCl <sub>2</sub> (10043-52-4)	-	Ex	-
	Calcium hypochlorite	Ca(ClO) <sub>2</sub> (7778-54-3)	-	Ex	-
	Calcium sulphate	CaSO <sub>4</sub> (7778-18-9)	-	Ex	-
	Chrome alum	KCr(SO <sub>4</sub> ) <sub>2</sub> (10141-00-1)	-	Ex	-
	Copper acetate	Cu(CH <sub>3</sub> COO) <sub>2</sub> (142-71-2)	-	Ex	-
	Copper chloride	CuCl <sub>2</sub> (7447-39-4)	-	Ex	-
	Copper nitrate	Cu(NO <sub>3</sub> ) <sub>2</sub> (3251-23-8)	-	Ex	-
	Copper sulphate	CuSO <sub>4</sub> (7758-98-7)	-	Ex	-
	Ferric chloride (dry)	FeCl <sub>3</sub> (7705-08-0)	-	Ex	-
	Ferric nitrate	Fe(NO <sub>3</sub> ) <sub>3</sub> (10421-48-4)	-	Ex	-
	Ferric sulfate	Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> (10028-22-5)	-	Ex	-
	Ferrous chloride	FeCl <sub>2</sub> (7758-94-3)	-	Ex	-
	Ferrous sulfate	FeSO <sub>4</sub> (7720-78-7)	-	Ex	-
	Lead acetate	Pb(CH <sub>3</sub> COO) <sub>2</sub> (301-04-2)	-	Ex	-
	Magnesium bisulfate	Mg(HSO <sub>4</sub> ) <sub>2</sub> (10028-26-9)	-	Ex	-
	Magnesium chloride	MgCl <sub>2</sub> (7786-30-3)	-	Ex	-
	Magnesium sulfate (Epsom salt)	MgSO <sub>4</sub> (7487-88-9)	-	Ex	-
	Mercuric chloride	HgCl <sub>2</sub> (7487-94-7)	-	Ex	-
	Mercuric cyanide	Hg(CN) <sub>2</sub> (592-04-1)	-	Ex	-
	Nickel ammonium sulfate	(NH <sub>4</sub> ) <sub>2</sub> Ni(SO <sub>4</sub> ) <sub>2</sub> (7785-20-8)	-	Ex	-
	Nickel chloride	NiCl <sub>2</sub> (7718-54-9)	-	Ex	-
	Nickel nitrate	Ni(NO <sub>3</sub> ) <sub>2</sub> (13138-45-9)	-	Ex	-
	Nickel sulfate	NiSO <sub>4</sub> (7786-81-4)	-	Ex	-
Potassium aluminum sulfate (potash alum)	KAl(SO <sub>4</sub> ) <sub>2</sub> (10043-67-1)	-	Ex	-	
Potassium bisulfite	KHSO <sub>3</sub> (7773-03-7)	-	Ex	-	
Potassium bromide	KBr (7758-02-3)	-	Ex	-	
Potassium carbonate	K <sub>2</sub> CO <sub>3</sub> (584-08-7)	-	Ex	-	

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Salts continued	Potassium chlorate	KClO <sub>3</sub> (3811-04-9)	-	Ex	-
	Potassium chloride	KCl (7447-40-7)	-	Ex	-
	Potassium cyanide	KCN (151-50-8)	-	Ex	-
	Potassium dichromate	K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> (7778-50-9)	-	Ex	-
	Potassium diphosphate	K <sub>2</sub> HPO <sub>4</sub> (7758-11-4)	-	Ex	-
	Potassium ferricyanide	K <sub>3</sub> [Fe(CN) <sub>6</sub> ] (13746-66-2)	-	Ex	-
	Potassium ferrocyanide	K <sub>4</sub> [Fe(CN) <sub>6</sub> ] (13943-58-3)	-	Ex	-
	Potassium iodide	KI (7681-11-0)	-	Ex	-
	Potassium nitrate	KNO <sub>3</sub> (7757-79-1)	-	Ex	-
	Potassium permanganate	KMnO <sub>4</sub> (7722-64-7)	-	Ex	-
	Potassium sulfate	K <sub>2</sub> SO <sub>4</sub> (7778-80-5)	-	Ex	-
	Potassium sulfide	K <sub>2</sub> S (1059-82-5)	-	Ex	-
	Potassium sulfite	K <sub>2</sub> SO <sub>3</sub> (10117-38-1)	-	Ex	-
	Silver nitrate	AgNO <sub>3</sub> (7761-88-8)	-	Ex	-
	Sodium acetate	CH <sub>3</sub> COONa (127-09-3)	-	Ex	-
	Sodium aluminate	NaAlO <sub>2</sub> (1302-42-7)	-	Ex	-
	Sodium bicarbonate	NaHCO <sub>3</sub> (144-55-8)	-	Ex	-
	Sodium bisulfate	NaHSO <sub>4</sub> (7681-38-1)	-	Ex	-
	Sodium bisulfite	NaHSO <sub>3</sub> (7631-90-5)	-	Ex	-
	Sodium borate (borax)	Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> (1303-96-4)	-	Ex	-
	Sodium bromide	NaBr (7647-15-6)	-	Ex	-
	Sodium carbonate (soda ash)	Na <sub>2</sub> CO <sub>3</sub> (497-19-8)	-	Ex	-
	Sodium chlorate	NaClO <sub>3</sub> (7775-09-9)	-	Ex	-
	Sodium chloride	NaCl (7647-14-5)	-	Ex	-
Sodium chromate	Na <sub>2</sub> CrO <sub>4</sub> (7775-11-3)	-	Ex	-	
Sodium cyanide	NaCN (143-33-9)	-	Ex	-	
Sodium fluoride	NaF (7681-49-4)	-	Ex	-	

Excellent	Ex	Suitable for all reasonable applications including immersion.
Good	G	Suitable for applications involving immersion for short periods, splashing and contact with fumes.
Moderate	M	Suitable for use in environments contaminated by the chemical or in situations where accidental splashing can be removed either by cleaning or in the case of volatile solvents, by evaporation.
Poor	P	<i>Not suitable for any applications involving contact with the chemical itself or fumes evolved from it.</i>
Note:		Chemical resistance ratings are assigned based on the ability of a Belzona product to resist chemical attack and/or protect the underlying substrate. Belzona cannot guarantee the purity of the chemical, appearance, or color stability following contact.

# CHEMICAL RESISTANCE OF BELZONA® 1111 (Super Metal)

FN 10012



	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	Other
Salts continued	Sodium hypochlorite (bleach)	NaClO (7681-52-9)	12%	G	-
	Sodium metaphosphate	(NaPO <sub>3</sub> ) <sub>6</sub> (10124-56-8)	-	Ex	-
	Sodium metasilicate (sodium silicate)	Na <sub>2</sub> SiO <sub>3</sub> (6834-92-0)	-	Ex	-
	Sodium nitrate	NaNO <sub>3</sub> (7631-99-4)	-	Ex	-
	Sodium phosphate (dibasic)	Na <sub>2</sub> HPO <sub>4</sub> (7558-79-4)	-	Ex	-
	Sodium phosphate (tribasic)	Na <sub>3</sub> PO <sub>4</sub> (7601-54-9)	-	Ex	-
	Sodium sulfate	Na <sub>2</sub> SO <sub>4</sub> (7757-82-6)	-	Ex	-
	Sodium sulfide	Na <sub>2</sub> S (1313-82-2)	-	Ex	-
	Stannous chloride (tin chloride)	SnCl <sub>2</sub> (7772-99-8)	-	Ex	-
	Zinc chloride	ZnCl <sub>2</sub> (7646-85-7)	-	Ex	-
	Zinc hydrosulfite	ZnS <sub>2</sub> O <sub>4</sub> (7779-86-4)	-	Ex	-
	Zinc sulfate	ZnSO <sub>4</sub> (7733-02-0)	-	Ex	-

Excellent	Ex	Suitable for all reasonable applications including immersion.
Good	G	Suitable for applications involving immersion for short periods, splashing and contact with fumes.
Moderate	M	Suitable for use in environments contaminated by the chemical or in situations where accidental splashing can be removed either by cleaning or in the case of volatile solvents, by evaporation.
Poor	P	<i>Not suitable for any applications involving contact with the chemical itself or fumes evolved from it.</i>
Note:		Chemical resistance ratings are assigned based on the ability of a Belzona product to resist chemical attack and/or protect the underlying substrate. Belzona cannot guarantee the purity of the chemical, appearance, or color stability following contact.

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