



# LIMITED WARRANTY

## Blygold® PoluAl



### Limited Warranty for the Coating

The heat transfer coils of this unit have been coated with Blygold® PoluAl Coating (the "Coating"). A unit's coil is defined herein as the heat transfer area up to and including the header but not including the first solder or braze joint.

The Coating shall comply with composition, formulation and specifications set forth in the published specification sheets developed by Blygold International B. V., the manufacturer of the Coating. MJC / Blygold Atlanta is the southeast licensee of Blygold America, Inc., a subsidiary of Blygold International B. V., and warrants that applications of the Coating by MJC / Blygold Atlanta shall be of good workmanship and free from defects. This warranty covers the Coating and/or application for a period of three years from the date of the purchase order (PO) to MJC, Inc for this coating.

### **This Warranty is valid only under and with the following conditions:**

1. The exposure conditions of the coil have at no time exceeded the limitations set forth in the resistance list.
2. The Blygold warranty registration form has been completed and received by MJC / Blygold Atlanta.
3. Inspection / maintenance requirements are performed in accordance with the recommendations using approved chemicals and methods, as prescribed in this document.
4. Notice of any failure of the Blygold PoluAl coating must be presented, in writing, to MJC / Blygold Atlanta within 30 days after the defect is discovered. Immediately after submitting such notice, free access shall be given to MJC / Blygold Atlanta or its appointed representative for the purpose of inspection and/or sampling of fin material and/or air sampling. If written notice is not given within one (1) week, and/or access to examine the coil is denied to MJC / Blygold Atlanta or its appointed representative, any claim for breach of this warranty shall be deemed to have been waived, and MJC / Blygold Atlanta shall have NO LIABILITY under this warranty.
5. In the event of a coil failure and an ensuing dispute as to the cause of said failure, an electron-microscopic test of a sample of the damaged coil will be employed to resolve said dispute. MJC / Blygold Atlanta will appoint an independent laboratory to be used for this test and the results will be binding.
6. Any service performed under this warranty shall not serve to extend the warranty beyond three years from the application date as set forth on the warranty registration form.
7. Coils damaged in transit, after the Blygold coating is initially applied, or during installation must be brought to the immediate attention of MJC / Blygold Atlanta. At such time, the coating will be repaired at the cost of the customer. Failure to repair the damaged coil will result in the warranty being voided.
8. The warranty shall be voided if the MJC / Blygold Atlanta cleaning instructions tag attached to the coil has been removed, destroyed or rendered illegible.

THE ABOVE LIMITED WARRANTY TERMS SHALL BE IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, AND ALL SUCH OTHER WARRANTIES ARE EXPRESSLY DISCLAIMED AND DENIED. IN NO EVENT SHALL MJC / BLYGOLD ATLANTA BE LIABLE TO YOU OR YOUR CUSTOMERS FOR ANY INCIDENTAL SPECIAL OR CONSEQUENTIAL DAMAGES, LOSS OF ANTICIPATED PROFITS OR OTHER ECONOMIC LOSS ARISING FOR ANY REASON WHATSOEVER. THIS WARRANTY SHALL ACCRUE ONLY TO YOUR BENEFIT, AND SHALL NOT BE TRANSFERABLE TO ANY OTHER PARTY.

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Your exclusive remedy for the breach of this limited warranty is limited, at MJC / Blygold Atlanta's option, to repair of the Coating in the field or to a new Coating for a replacement coil. This Limited Warranty will **NOT** cover the cost of consequential damages resulting from coating failure. MJC / Blygold Atlanta shall accept no liability or responsibility for damages should the coils or the Coatings be used for an unspecified purpose, misused, tampered with or combined with foreign elements, damaged by mishandling, abuse, improper storage or used in any manner other than originally intended. Without limiting the generality of the foregoing, the following items specifically are not covered by this limited warranty:

- (a) Damage originating internally, such as from corrosive liquids or gases inside the system; or
- (b) Damage from improper cleaning methods, such as the use of wire brushes, unauthorized chemicals or coil cleaners, or other abrasive actions or products; or
- (c) Damage from any other intentional or accidental act, or any act of nature, which compromises the integrity of the Coating applied for external corrosion protection.

MJC / Blygold Atlanta reserves the right, at its option, to inspect any unit, either by on-site inspection or otherwise, prior to repair or replacement. Coating of a replacement coil or repair of Coating does not extend the original warranty period set forth above.

### **Maintaining Your Limited Warranty**

**In order to maintain coverage under this limited warranty, you must:**

- (a) Register coils coated with Blygold® PoluAl using the warranty registration card.
- (b) Provide for normal maintenance. Coil cleanings are considered normal maintenance during the life of the warranty. Coil cleaning is defined to be a low-pressure wash with water only or a mild detergent (pH of 7-9). Do not use wire brushes, scrapers, or other abrasives.
- (c) Keep records of all service work and cleanings performed. Failure to keep your unit serviced and properly cleaned may void all or part of this limited warranty.
- (d) Send copies of all inspection, service and cleaning reports to MJC / Blygold Atlanta within 30 days of completion. Failure to send an inspection report may void all or part of this limited warranty.
- (e) Provide prompt attention to needed repair and service of equipment or Coating.
- (f) Schedule coil cleaning and inspection of coated coil(s) as follows in accordance with the terms of this warranty:
  1. Coils must be cleaned at least every three months and may require more frequent cleaning in highly aggressive environments;
  2. Following the cleaning of the coil, inspect and log as follows:
    - Check Coating for abrasion, erosion, or corrosion damage;
    - Inspect for coating damage at the fin edges, fin/tube interface and at the "U" bends of the header portion of the coil;
    - Notify MJC / Blygold Atlanta within 30 days of discovery of any coating damage. Notification must include evidence of coating failure, i.e. fin samples, photographs, etc.

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## Three Year Warranty Registration Form

### 1. Installation Site and Equipment information

Site Name	:	
Address	:	
City	:	
State and Zip	:	
Equipment Manufacturer	:	
Model Number	:	
Serial Number	:	

I have read the warranty terms and conditions provided with this form. I understand that failure to comply with those terms and conditions will result in this warranty being voided.

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

### 2. Blygold Licensee and Applicator information

Blygold Licensee	:	MJC / Blygold Atlanta
Address	:	2060 Airport Industrial Park Dr., Marietta, GA 30060
Telephone	:	770-988-8338
PO #	:	
PO Date	:	

Note: This warranty is valid for three years from the Purchase Order (PO) date shown above. This registration form must be filled out and returned certified mail return receipt requested, to the MJC, Inc. address shown above within thirty days after the unit is installed.

Blygold® is a Registered Trademark of Blygold International BV.

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## BLYGOLD POLUAL CHEMICALS AND OTHER SUBSTANCES RESISTANCE LIST

Blygold PoluAl's resistance to various chemicals and other substances has been tested under laboratory conditions. The issuance of a warranty to a coil coated with the Blygold PoluAl corrosion protection system will be subject to the exposure conditions simulated in this test. Values are based on average concentrations. If there are any questions regarding these substances or their limits please contact MJC, Inc. (Blygold Atlanta) at 2060 Airport Industrial Park Dr., Marietta, GA 30060. Telephone 770-988-8338

### Note!

**Resistance is expressed with regard to VAPORS NOT FLUIDS. If units are to be exposed to fluids, cleaning agents, chemical fluids or powders, process fluids or others not specified on this resistance list, MJC / Blygold Atlanta should be consulted.**

XX = Resistant to concentrated vapors, no limitations to exposure

10-100ppm = Resistant between 10-100 ppm

5-10ppm = Resistant between 5-10 ppm

5ppm = Resistant up to 5 ppm

ppm = parts per million

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### Inorganic acids

1.	Arsenious acid solution	XX	14.	Hydrogen sulphide	XX
2.	Arsenic acid solution	XX	15.	Hydrogen sulphide solution	XX
3.	Boric acid	XX	16.	Nitric acid concentrated	5-10ppm
4.	Boric acid solution	XX	17.	Nitric acid solution	XX
5.	Hydrogen carbonate	XX	18.	Nitrous acid	XX
6.	Chromic acid	XX	19.	Nitrous vapors	5-10ppm
7.	Bromic acid	5-10ppm	20.	Sulphuric acid vapors	5-10ppm
8.	Bromic acid solution	XX	21.	Sulphuric acid	XX
9.	Hydrochloric acid	5-10ppm	22.	Phosphoric acid	XX
10.	Hydrochloric acid solution	XX	23.	Perchloric acid concentrated	5-10ppm
11.	Hydrogen fluoride	XX	24.	Perchloric acid solution	XX
12.	Hydrogen fluoride solution	XX	25.	Selenic acid	XX
13.	Sulphurous acid	XX	26.	Selenous acid solution	XX

### Organic acids

1.	Acetic acid	XX	14.	Oleic acid	XX
2.	Acetic acid glacial	5-10ppm	15.	Oxalic acid	XX
3.	Benzoic acid	XX	16.	Sulphamic acid	XX
4.	Lactic acid	XX	17.	Wine stone acid	XX
5.	Phenols	XX	18.	Barn stone acid	XX
6.	Citric acid	XX	19.	Palmitic acid	XX
7.	Fatty acids	XX	20.	Tannin	XX
8.	Formic acid concentrated	5-10ppm	21.	Phthalic acid	XX
9.	Formic acid solution	XX	22.	Propionic acid concentrated	5-10ppm
10.	Hydrocyanic acid	XX	23.	Propionic acid solution	XX
11.	Malic acid	XX	24.	Salicylic acid	XX
12.	Margaric acid	XX	25.	Stearic acid	XX
13.	Picric acid	XX	26.	Valeric acid	XX

### Alkalines

1.	Ammonia (gas)	10-100ppm	6.	Caustic potassium	5-10ppm
2.	Ammonia (Solutions)	10-100ppm	7.	Potassium hydroxide solution	XX
3.	Ammoniacal solution	XX	8.	Lithium hydroxide	5-10ppm
4.	Caustic soda	5-10ppm	9.	Calcium hydroxide	XX
5.	Sodium hydroxide solution	XX	10.	Magnesium hydroxide	XX

### Amines

1.	Triethanolamine	XX	10.	Cyclohexylamine solution	XX
2.	Triethanolamine concentrated	XX	11.	Triethylamine	XX
3.	AMP 95 concentrated	XX	12.	Aniline	5-10ppm
4.	AMP 95 solution	XX	13.	Aniline chloride	5-10ppm
5.	Aniline sulphate	XX	14.	Methylamine	XX
6.	Hexamethylenetetraamine	XX	15.	Isoferondiamine	XX
7.	Hexanediamine	5-10ppm	16.	Diphenylmethanediamine	XX
8.	Phenyldiamine	XX	17.	DETHA	XX
9.	Cyclohexylamine concentrated	5-10ppm			

### Ethers

1.	Diethyl ether	5-10ppm	2.	Acetic ether	5-10ppm
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### Aromatic Hydrocarbons

1.	Xylene	XX	6.	Gumlac	XX
2.	Toluene	XX	7.	Benzene	XX
3.	Asphalt	XX	8.	Solvent naphtha	XX
4.	Anthracene	XX	9.	Naphtalene	XX
5.	Benzapherene	XX	10.	Terpenes	XX

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### Aliphatic Hydrocarbons

1.	White spirit	XX	4.	Isopar G	XX
2.	Shellsol TD	XX	5.	Paraffin	XX
3.	Bitumen	XX	6.	Paraffin oil	XX

### Alcohols

1.	Methano	15-10ppm	6.	Benzyl alcohol	XX
2.	Ethanol	XX	7.	Diaceton alcohol DAA	XX
3.	Isopropanol	XX	8.	Glycerine	XX
4.	n-Butanol	XX	9.	n-Propanol	XX
5.	Amyl alcohol	XX	10.	Pentanol	XX

### Softeners

1.	Palatinol C	XX	5.	Desavin	XX
2.	Chloroparaffin 5XX vl.	XX	6.	Disflamol TOF	XX
3.	Diocetyl-phosphate	XX	7.	Mesamol	XX
4.	Dibutyl-phosphate	XX	8.	Dinonylphenol	XX

### Fuels and Oils

1.	Diesel	XX	9.	Mineral Oils	XX
2.	Fuel oil	XX	10.	Break liquid	XX
3.	Petrol	XX	11.	Skydrol	XX
4.	Super petrol	XX	12.	Animal oils	XX
5.	Lubricating oils	XX	13.	Ethric oils	XX
6.	Kerosene	XX	14.	Vegetable oils	XX
7.	Sferic oils	XX	15.	Butyl gas	XX
8.	LPG	XX	16.	Acetylene	XX

### Esters

1.	Ethyl acetate	10-100ppm	5.	Butyl acetate	XX
2.	Amyl acetate	XX	6.	Butyl propionate	XX
3.	Propyl acetate	XX	7.	Ethyl formate	XX
4.	Ethyl oxalate	XX	8.	Ethyl benzoate	XX

### Ketones and Aldehydes

1.	Acetone	10-100ppm	6.	Disobutyl ketone	5-10ppm
2.	Acetaldehyde	5-10ppm	7.	Methyl isobutyl ketone	5-10ppm
3.	Benzaldehyde	10-100ppm	8.	Methyl ethyl ketone	5-10ppm
4.	Formaldehyde	5-10ppm	9.	Butanol	5-10ppm
5.	Salicylaldehyde	5-10ppm	10.	Crotonaldehyde	5-10ppm

### Halogenated Hydrocarbons

1.	Trichloroethane	5-10ppm
2.	Methylenechloride	5-10ppm
3.	Methyl bromide	5-10ppm
4.	Tetrachloromethane	5-10ppm
5.	Dichloroethene	5-10ppm
6.	Trichloroethylene	5-10ppm
7.	Perchloroethylene	5-10ppm
8.	Tetraiodicmethane	5-10ppm
9.	PCB	5-10ppm

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### Salts and Water Solutions

1.	Sodium salts	XX	14.	Hydro quinine	XX
2.	Potassium salts	XX	15.	Iron salts	XX
3.	Calcium salts	XX	16.	Process water	XX
4.	Aluminum salts	XX	17.	Rainwater	XX
5.	Ammonium salts	XX	18.	Seawater	XX
6.	Barium salts	XX	19.	Heavy water	XX
7.	Copper salts	XX	20.	Zinc salts	XX
8.	Lead salts	XX	21.	Tin salts	XX
9.	Lithium salts	XX	22.	Silicon salts	XX
10.	Magnesium salts	XX	23.	Cement	XX
11.	Mercury salts	XX	24.	Quartz	XX
12.	Lithopone	XX	25.	Dolomite	XX
13.	Arsenious compounds	XX			

### Others

1.	Carbon disulphide	10-100ppm	40.	Menthol	XX
2.	Carbon monoxide	XX	41.	Camphor	XX
3.	Carbon dioxide	XX	42.	Carbon	XX
4.	Nitrogen	XX	43.	Cellulose	XX
5.	Hydrogen peroxide	10-100ppm	44.	Cellulose acetate	XX
6.	Chlorine	5-10ppm	45.	Nitrocellulose	XX
7.	Chlorine water	5-10ppm	46.	Methyl cellulose	XX
8.	Iodine	5-10ppm	47.	Cocoas	XX
9.	Iodine tincture	10-100ppm	48.	Silicium	XX
10.	Bromic	5-10ppm	49.	Silicium carbide	XX
11.	East-Indian ink	XX	50.	Cork	XX
12.	Phosphor	XX	51.	Wood fiber	XX
13.	Diphosphorpentoxide	5-10ppm	52.	Photo development bath	XX
14.	Zinc	XX	53.	Viscose	XX
15.	Aluminum	XX	54.	Rescosinol	XX
16.	Glucose (syrup)	XX	55.	Resins	XX
17.	Fructose	XX	56.	Tobacco	XX
18.	Mercury	XX	57.	Nicotine	XX
19.	Sulphur	XX	58.	Tri-nitro benzene	XX
20.	Antimony	XX	59.	Gelatin	XX
21.	Indole	XX	60.	Printer's ink	XX
22.	Latices	XX	61.	Milk	XX
23.	Nitroglycerine	XX	62.	Potato flour	XX
24.	Hydrogen	XX	63.	Vegetables	XX
25.	Epoxy resins	XX	64.	Fruit	XX
26.	Isocyanate	XX	65.	Spices	XX
27.	Rubber	XX	66.	Honey	XX
28.	Shellac	XX	67.	Eggs	XX
29.	Soaps	XX	68.	Cheese	XX
30.	Urea	XX	69.	Mustard	XX
31.	Thioureum	XX	70.	Mayonnaise	XX
32.	Fruit essences	XX	71.	Tomato ketchup	XX
33.	Beer	XX	72.	Curry	XX
34.	Flour products	XX	73.	Cacao	XX
35.	Corn	XX	74.	Lemonade	XX
36.	Liqueurs	XX	75.	Coca Cola	XX
37.	Coffee	XX	76.	Pepsi Cola	XX
38.	Tea	XX	77.	Sauerkraut	XX
39.	Liquor	XX	78.	Blood	XX

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