

# Company overview & Introduction of Products and services



Quality



Innovation



Sustainability



## Quality

- ✓ Over 40 years of experience
- ✓ Unique application techniques
- ✓ Unrivalled test results
- ✓ All trained & qualified applicators
- ✓ Global Quality Standard
- ✓ ISO 9001 Certified



## Innovation

- ✓ Revolutionary R&D
- ✓ Inhouse laboratory
- ✓ Deep understanding of the Market
- ✓ Global awareness customer needs
- ✓ Problem solving mentality



## Sustainability

- ✓ Lifetime extending
- ✓ Energy saving & Eco Friendly
- ✓ Life Cycle Cost reducing
- ✓ Maintenance friendly
- ✓ Corporate Social Responsibility

**First Choice in Corrosion Protection on HVAC Equipment**



**(partially) Corporate owned Blygold Companies**

**Blygold Netherlands**

**Blygold Germany**

**Blygold France**

**Blygold America**

**Blygold Florida**

**Franchisees and Licensees**

**75+ Blygold Partners**

**55+ Countries**

**OEM contracts**

**HVAC Equipment Manufacturers**

**Global Presence....**  
**....Local Service!**

**Represented in 55+ Countries worldwide!**

### Global Headquarter in the Netherlands

- Marketing and Sales
- Research and Development
- Production
- Distribution
- Support
- Training facility

### Regional Headquarters: Oceania and America

- Distribution
- Support
- Training facility



## Products & Services

### Air Cooled HX



RTPF  
(Fin and Tube)

Protection: Polual XT



MCHE  
(Microchannel)

Protection: Polual MC



Finned Tube

Protection: Polual XT or PoluAl  
High Temp

### Advantages Blygold PoluAl

- ✓ Prevents corrosion
- ✓ Unique products and application
- ✓ Triples the lifetime
- ✓ Saves up to 30% on energy cost
- ✓ 11.000 hour salt spray test ASTM B117
- ✓ Preserves high efficiency of micro channel HX
- ✓ Prevents early micro channel HX failure
- ✓ Heat conductive protective layer
- ✓ Improved water release properties
- ✓ Highly flexible for coil bending
- ✓ Reflective pigment prevents sun radiation absorption
- ✓ High chemical resistance
- ✓ Heat resistant up to 650°C (1202 °F)
- ✓ Triples the life time
- ✓ negligible pressure drop
- ✓ Factory and field operation
- ✓ Heat conductive corrosion protection



## Products & Services

### Water Cooled HX



Tubesheet and  
Waterbox coating  
(Centrifugal Chiller)

Protection: Blygold Ceratec

#### Advantages Blygold Ceratec

- ✓ Prevents corrosion on tube sheet and waterbox
- ✓ Unique products and application
- ✓ Seals off dissimilar metals
- ✓ High chemical and mechanical resistance
- ✓ Preventive on new equipment
- ✓ Corrective rebuilding of affected surfaces

## Products & Services

### Refurbishment & Casing Coating

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Blygold Refurbishment & Casing Coating

Protection: Blygold Refamac

#### Advantages Blygold Refurbishment and Casing coating

- ✓ Rejuvenation with minimal inconvenience
- ✓ Optimization of existing equipment
- ✓ Add on to standard maintenance
- ✓ Simplifies afterwards maintenance
- ✓ Lifetime extension up to 15 years!
- ✓ Usually less than 35% of replacement costs

## Products & Services

### Refurbishment & Casing Coating



Blygold Cabinet & Casing Coating

Protection: Blygold Refamac

#### Advantages Blygold Casing Coating

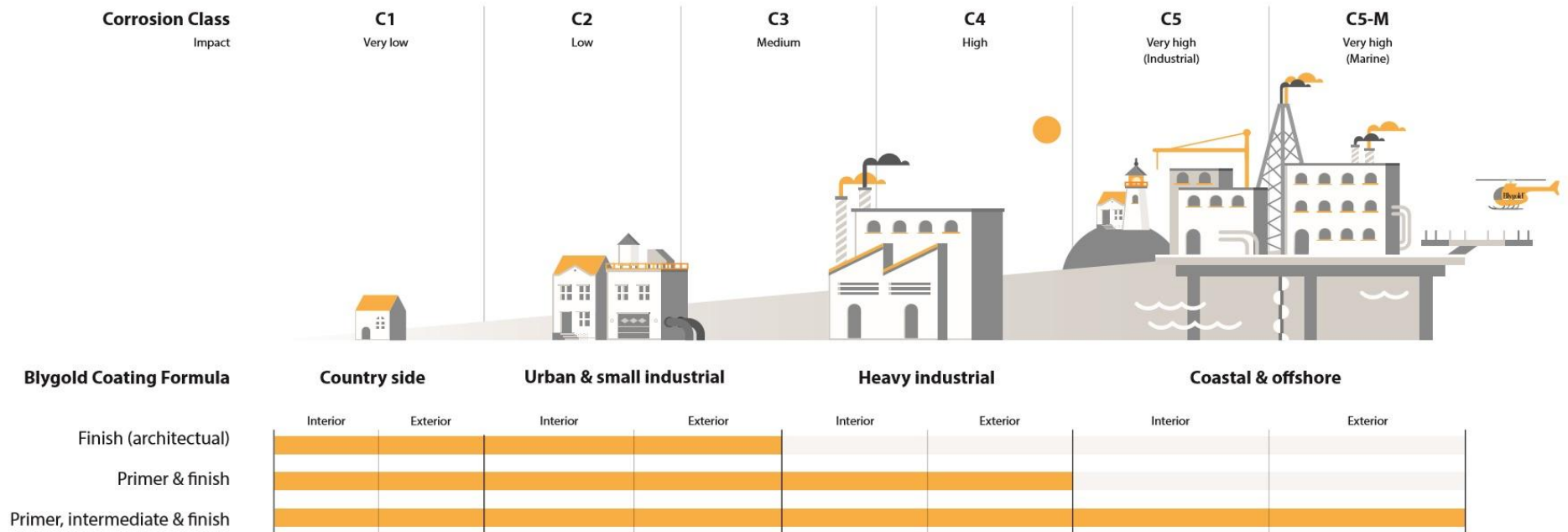
- ✓ Protection up to corrosion class C5-M
- ✓ Extends the lifetime
- ✓ Casing, cabinets, supports, piping, flooring, etc.
- ✓ Meeting architectural demands
- ✓ Factory & Field application



## Products & Services

# Exterior coating

## Iso 12944



## PoluAl Heat Exchanger protection

### Advantages PoluAl

- ✓ Coating application after coil manufacturing
  - ✓ Cutting edge protection
  - ✓ No coating between fin collar & tube
- ✓ Service on-site possibility
  - ✓ Touch up or repair possible
- ✓ UV resistance
- ✓ Limited capacity loss
- ✓ Limited hydrophobic surface properties
- ✓ Worldwide application possible
- ✓ Copper tubing protection

Blygold PoluAl Specifications

Quality	PoluAl
Heat conductivity	Excellent
100% coverage	Yes
UV resistance	Excellent
Flexible	Very
Adhesion	Excellent
Thickness of layer	Very thin
Mechanical resistance	Very high
salt spray corrosion test ASTM B117 -G85	11.000+ hours

Aluminium pigmentation and filling/ sealing between tubes and fins
Due to high air volume application technique
On a coated panel. (4.000+ on a coated HX)

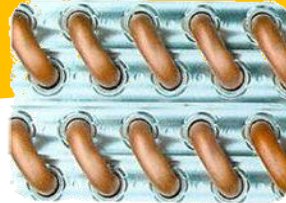
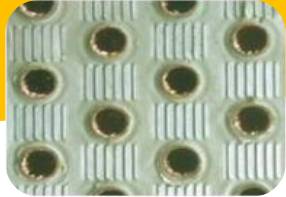
## Competition

### Competition

Some of our competitors:

- ✓ Precoat
- ✓ Electrocoat
- ✓ Dipping
  
- ✓ Other spray applied coatings

## Comparison



Quality	PoluAl XT
Heat conductivity	Excellent
100% coverage	Yes
UV resistance	Excellent
Flexible	Very
Adhesion	Excellent
Thickness of layer	Very thin
Mechanical resistance	Very high
salt spray corrosion test ASTM B117 -G85	11.000+ hours

Precoat	Dipping	Electrolyse
Poor	Poor	Good
NO (cutting edges)	NO (vacuum)	NO (flux resdu)
Poor	Poor	Poor (extra topcoat)
Very	Not (cracks)	Not (cracks)
Excellent	Excellent	Excellent
	Thick (varies)	Very thin
High	low(cracks)	low(cracks)
< 500 hours	5000+ hours	6.048 hours

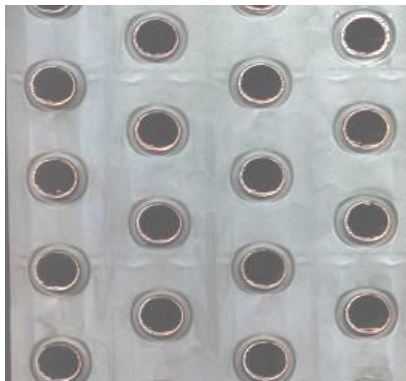
## Products & Services

### Other spray applied coatings

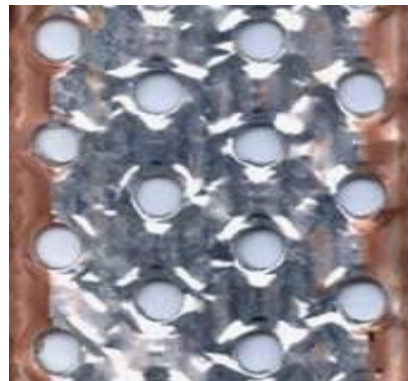
2 reasons why Blygold beats their competition:

- Our application technique
- Our product

Blygold PoluAl XT is better than every other spray applied product it has officially been compared to. And our application techniques ensures a complete coverage of the tubes and finned area of the coil.



**Application by  
Blygold**



**Application by  
Competition**



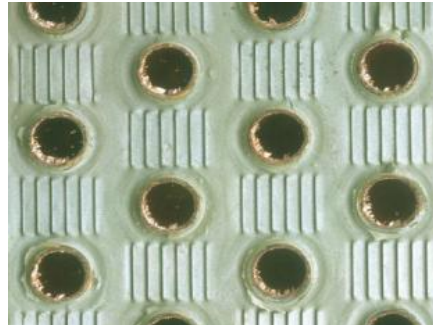
## Products & Services

### Test results PoluAl XT

Our treatment is tested by countless independent laboratories and some of the biggest manufacturers in the world



**Unprotected coil after  
4000 hours salt spray  
test**



**Coil with PoluAl XT  
after  
4000 hours salt spray  
test**

### **SALT SPRAY TEST (neutral)**

SS DIN 50021

ASTM B117

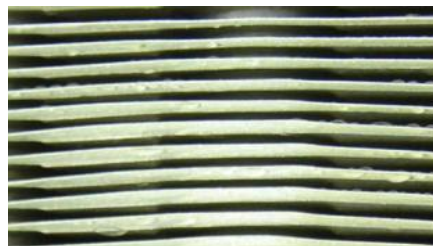
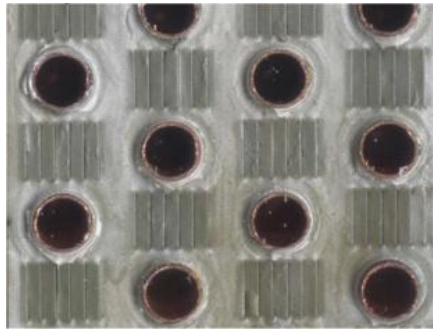
## Products & Services

### Test results PoluAl XT

Our treatment is tested by countless independent laboratories and some of the biggest manufacturers in the world



**Unprotected coil after  
4000 hours acid spray test**



**Coil with PoluAl XT after  
4000 hours acid spray test**

**ACID SPRAY TEST**  
ESS DIN 50021  
ASTM B287

## Test results PoluAl

Some of our results:

- ✓ Excellent chemical resistance
- ✓ Excellent UV resistance
- ✓ Excellent adhesion
- ✓ Excellent flexibility
- ✓ Excellent wear resistance

### **BSRIA test results:**

- ✓ *“Blygold PoluAl XT does not have any negative effect on heat exchanging capacity of air cooled heat exchangers”*
- ✓ *“Precoated coils show significant capacity loss due to the coating layer between copper and aluminium.”*

Salt spray test results up to **11.000** hours!

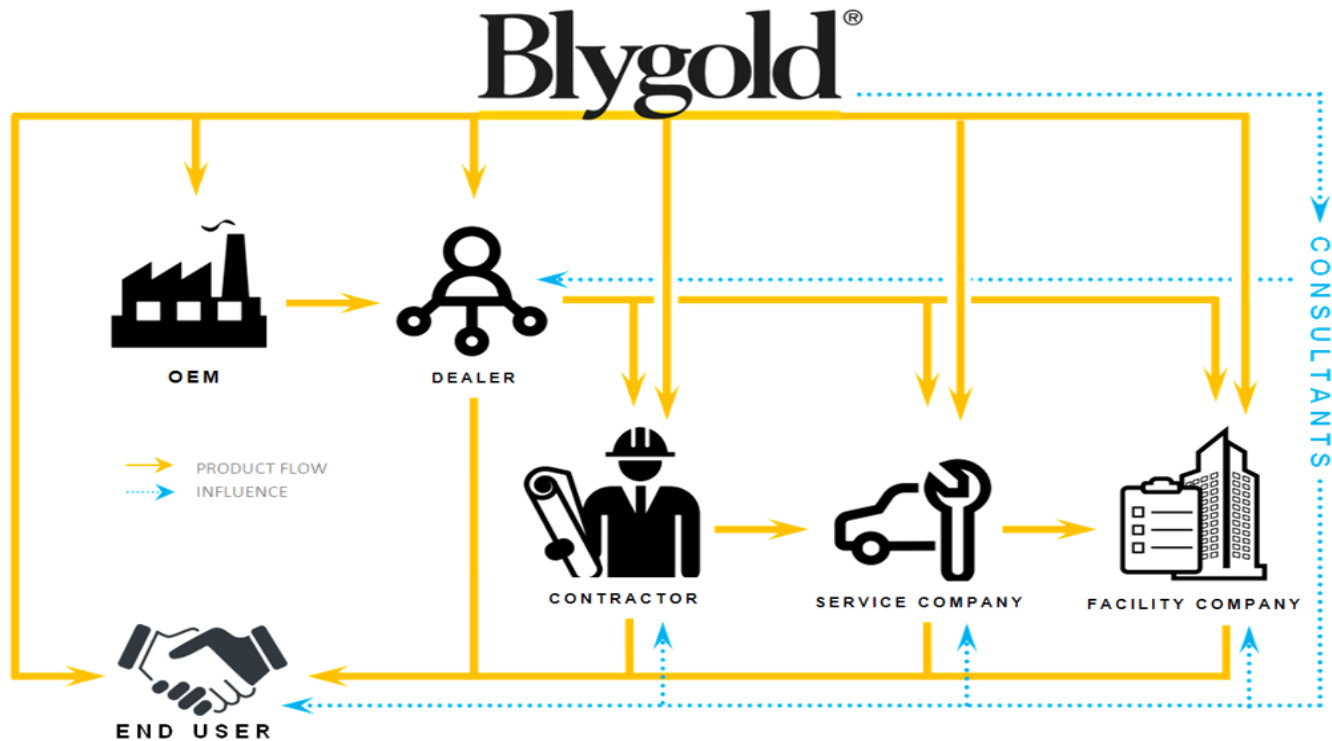
## Our Clients

### A Selection of clients

- Coil manufacturers
- HVAC manufacturers
- HVAC dealers
- Contractors
- Consultants
- End-users
- Service companies



## Blygold Sales Channels



## References

Blygold has successfully completed some of the most prestigious projects and for some of the biggest manufacturers in the world:

A selection of manufacturers:

- |                          |                   |
|--------------------------|-------------------|
| ✓ Trane                  | ✓ ClimaVeneta     |
| ✓ Lennox                 | ✓ BAC             |
| ✓ Daikin                 | ✓ Petra           |
| ✓ Johnson Control (York) | ✓ Toshiba         |
| ✓ CIAT                   | ✓ Carrier         |
| ✓ Modine                 | ✓ LG              |
| ✓ Delphi                 | ✓ Bumyang         |
| ✓ Alfa Laval             | ✓ Hitachi         |
| ✓ Mitsubishi             | ✓ Kelvion         |
| ✓ Güntner                | ✓ and many others |



## References

Blygold has successfully completed some of the most prestigious projects and for some of the biggest manufacturers in the world:

A selection of projects:

- ✓ TGV High Speed Train Korea
- ✓ Palm Island
- ✓ Shell
- ✓ Louvre Museum
- ✓ Renault trucks
- ✓ Kawasaki Heavy Industries
- ✓ Disney World
- ✓ Volvo Construction
- ✓ European Parliament
- ✓ Miami Dolphins Stadium
- ✓ Heathrow Airport
- ✓ KLM Royal Dutch Airlines
- ✓ Caterpillar
- ✓ And many others

## References

Blygold has successfully completed some of the most prestigious projects and for some of the biggest manufacturers in the world:

Some of the markets we are operating in:

- |                     |                            |
|---------------------|----------------------------|
| ✓ Offshore & Marine | ✓ Hotels                   |
| ✓ Museums           | ✓ Office Buildings         |
| ✓ Military Bases    | ✓ Transport & Construction |
| ✓ Hospitals         | ✓ Powerplants              |
| ✓ Airports          | ✓ Sport Arenas             |

Questions?

**Thank You!**