



## **PoluAl XT**

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- ✓ *Prevents corrosion*
- ✓ *Special spray technique*
- ✓ *Heat conductive*

## Blygold PoluAl XT – HVAC/R coil protection

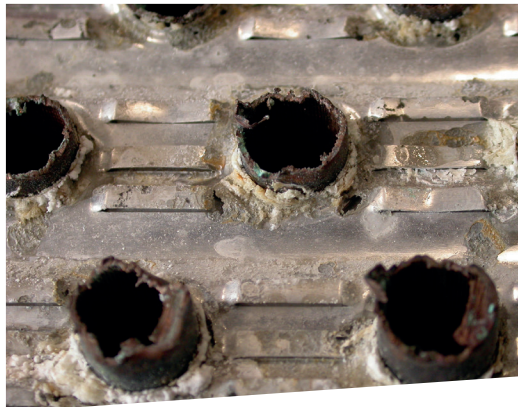
Blygold has developed pioneering coatings specifically for HVAC corrosion protection. From the very beginning Blygold has always focused on corrosion protection for heat exchangers. Different types of corrosion such as galvanic or pitting rapidly decrease the heat exchange efficiency of coils and the efficiency of the total HVAC equipment.

In the quest for more efficient air-conditioning equipment several innovations have increased the nominal efficiency of heat exchanger coils. With the introduction of enhanced fins, increased fin density, adiabatic systems and micro channels not only the nominal efficiency has increased but also pollution and corrosion vulnerability. High pressure failures, early replacements and increased power consumption can be prevented with the right preventive and corrective measures. Protecting these heat exchangers calls for specialists. The geometry makes the application of coatings complicated and the need for heat transfer excludes standard coating systems.

### WITH BLYGOLD POLUAL XT



### WITHOUT BLYGOLD POLUAL XT



### Special product

Our most coveted product is PoluAl XT: an aluminium pigmented polyurethane coating especially developed for the protection of air-cooled heat exchangers. PoluAl XT stands apart from the rest. It has an excellent chemical and UV resistance. It offers flexibility, excellent adhesion with negligible effect on the heat transfer. Plus it can be applied in a very thin layer, to prevent pressure drop. PoluAl XT combines all these properties with extraordinary corrosion protection.

- ✓ Heat conductive
- ✓ 11.000+ hours salt spray test
- ✓ UV resistance
- ✓ Ultra thin layer (20 µm) to prevent pressure drop
- ✓ Highly Flexible

### The application

A good coating will only perform when applied in a high quality process. Coating heat exchangers requires specialists that are able to apply the coating on every piece of bare metal present in a heat exchanger. Blygold uses proprietary spray techniques that can only be practiced by certified applicators. These qualified applicators are essential to realize a corrosion resistant and maintenance friendly heat exchanger. Blygold coating application is preferably done in a conditioned Blygold workshop but is, under restricted circumstances, also possible on-site.

### BLYGOLD



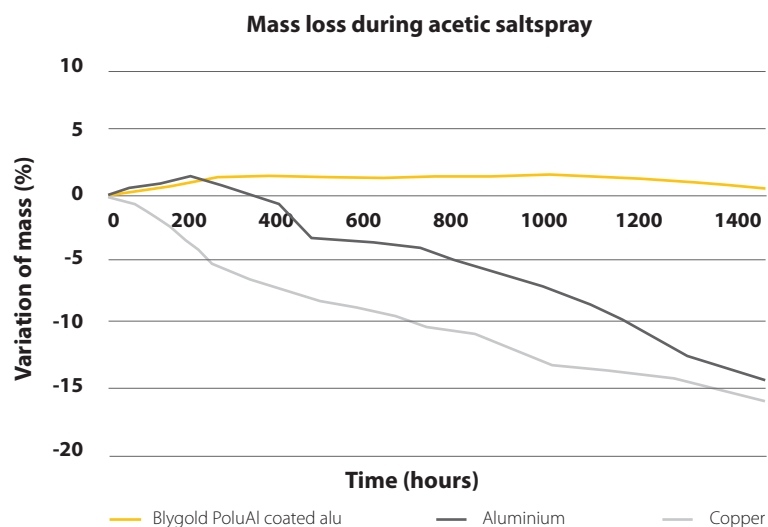
### COMPETITION



### TECHNICAL INFORMATION

<b>Treatment:</b>	PoluAl XT
<b>Coating type:</b>	Aluminum pigmented Polyurethane
<b>Color:</b>	Champagne
<b>Pretreatment:</b>	Degreasing
<b>Temperature Range (dry):</b>	-20° to 150 °C (-4° to 302 °F)
<b>Substrates:</b>	Aluminium and copper
<b>ASTM B117:</b>	4,000+ hours (heat exchanger) 11,000 hours (aluminium plate)
<b>ASTM B-287:</b>	4,000+ hours
<b>Kesternich (2.0 ltr SO<sub>2</sub>):</b>	80 cycles
<b>Layer Thickness:</b>	25 -30 µm (1 mil)
<b>Pressure Drop:</b>	0-5%
<b>Thermal Resistance:</b>	0-3%
<b>Application:</b>	Qualified Blygold Applicator
<b>UV Resistance:</b>	Excellent
<b>Adhesion (cross hatch):</b>	0 (European) 5b (USA)
<b>Applications:</b>	Heat exchanging surfaces in high temperatures
<b>Chemical Resistance:</b>	Excellent

***A good product  
is just half the job,  
the application  
is just as  
important!***





**BLYGOLD INTERNATIONAL**

**Blygold is an innovative and forward-thinking company offering unique and sustainable high-quality protection against corrosion. With over 40 years experience, we have the know-how and state-of-the-art products and techniques to solve any corrosion problem. Our multitude of success stories says it all.**

#### **Application protocols**

Because of the specific geometry of heat exchangers, the quality of the application process is just as important as the applied product. Blygold has developed specific application protocols for heat exchangers of all different dimensions, geometries and materials.

#### **Global network**

To ensure our products are applied according to these protocols, Blygold works with trained and certified applicators only. Our global network of qualified Blygold applicators can offer local support in over 60 countries around the world.



#### **Quality**

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



#### **Innovation**

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



#### **Sustainability**

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



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