

**Protecting more
than you think**

Blygold®
CORROSION PROTECTION



PoluAl WB

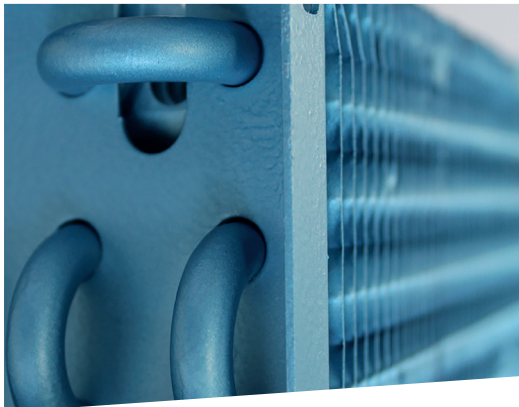
- ✓ *Water Based*
- ✓ *Surface tolerant*
- ✓ *Corrosion resistant*

Blygold PoluAl WB – 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 WB



WITHOUT BLYGOLD POLUAL WB



Special product

A water based product with corrosion inhibiting ingredients and high content of aluminium pigmentation for diffusion control and heat conductivity. Improved wetting on hydrophobic surfaces makes the product very surface tolerant (compared to other water-based coatings). High corrosion and UV resistance.

- ✓ Heat conductive
- ✓ 4000+ hours salt spray test
- ✓ UV resistance
- ✓ Layer (30 µm) to prevent pressure drop
- ✓ Highly Flexible

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

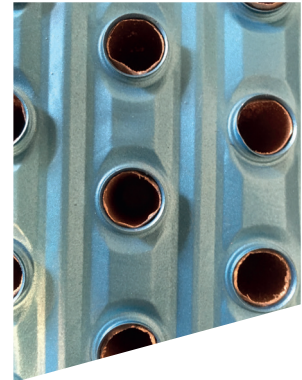
The application

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.

DIP / FLOW COATING



BLYGOLD HVHP COATING POLUAL WB



TECHNICAL INFORMATION

Treatment:	PoluAl WB
Coating type:	Water based, aluminum loaded, urethane dispersion.
Color:	Silver-blue
Pretreatment:	Degreasing & Passivation
Temperature Range (dry):	-20° to 150 °C (-4° to 302 °F)
Substrates:	Aluminium, copper, galvanised steel
ASTM B117:	4000+ hours
Kesternich (2.0 ltr SO2):	40 cycles pending

Layer Thickness:	25-35 µm
Pressure Drop:	Pending
Thermal Resistance:	Pending
Application:	Qualified Blygold Applicator
UV Resistance:	Excellent
Adhesion (cross hatch):	0 (European) 5b (USA)
Applications:	Heat exchanging surfaces
Chemical Resistance:	Excellent

Our sustainable supply chain

Sustainability is more than just offering a "green" product. Being a sustainable company means you have to approach each step in your business process with the same mindset: to offer smart solutions with a minimal impact on the global environment. This mentality has been with Blygold since we were founded in 1976 and is the reason why still today we're miles ahead on our competition: in our solutions and our sustainable business approach!



100% Renewable
Solar panels and wind turbines on top of the production facility generate 100% of the required energy for the production of PoluAl WB.



Clean Shipping
Blygold is member of the Goodshipping Program meaning that all Blygold PoluAl WB is shipped Carbon Neutral by using sustainable produced Bio Fuels.



100% Certified
Every Blygold Applicator in the world is certified according to the Blygold Global Quality Standard. This way we can guaranty our quality.



Improve results
Equipment protected by Blygold can use up to 30% less energy and can have it's lifetime improved by 300% compared to equipment that isn't treated by Blygold.



The Blygold Foundation
This 100% charity offers support to local initiatives that connect to Blygold's corporate values and their vision on the importance of local communities.



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

