

Product Sheet

# PoluAl Hybrid



## PROBLEM

Heat exchangers are subject to severe corrosion because of their construction, which usually combines dissimilar metals and because of the volume of polluted air passing through them. Corrosion and pollution of heat exchangers will directly affect the performance of the air conditioning system. The heat exchanger must be sealed off from the environment in a manner that will not reduce its heat transfer or cause a pressure drop. When this is accomplished, the cooling capacity will remain intact and energy consumption can be controlled.



## WHY USE POLUAL HYBRID?

- Low VOC, environmentally friendly treatment
- 100% coverage of heat exchanging surface
- Blygold quality

## SOLUTION

Blygold PoluAl Hybrid provides a long lasting corrosion protection to heat exchangers, with very limited effect on heat transfer and pressure drop. The finish with PoluAl XT ensures a high UV-resistance. The heat conductive pigmentation in the coating is oriented in such a way that it creates a very high chemical resistance at a low layer thickness. In combination with the unique application procedures of certified Blygold applicators, PoluAl Hybrid is the best available environmental friendly option to prevent air conditioning failure and unnecessary energy consumption.



**Product Sheet**

# PoluAl Hybrid

**TECHNICAL INFORMATION**

Treatment:	Blygold PoluAl Hybrid
Coating type:	VOC free, zinc impregnated dispersion with aluminium pigmented PU finish
Color:	Champagne finish/exterior (PoluAl XT)
Pretreatment:	Moderate alkaline pre-treatment
Temperature Range (dry):	0 - 80°C (32 - 176°F)
Substrates:	Aluminium and Copper
ASTM B117:	4000+ hours (heat exchanger) 11.000 hours (aluminium panel)
ASTM B287:	4000+ hours (heat exchanger)
Layer Thickness:	25-35 µm (1 mil)
Pressure Drop:	5-10% (depending on fin geometry)
Thermal Resistance:	1-5% (depending on fin geometry)
Application:	Certified Blygold Applicator
UV Resistance:	Excellent
Adhesion (cross hatch):	0 (European) 5b (USA)
Applications:	RTPF condensers or dry-coolers
Chemical Resistance:	Good
VOC:	44 g/ltr - 163 g/ltr (depending on coil geometry)



**CONTACT**

Blygold International B.V.  
 PO Box 44, 3990 DA Houten The Netherlands  
 Phone: +31 30 6344344 – Fax: +31 30 6344300  
 E-mail: info@blygold.com – www.blygold.com

