

AQUA AERO HIGH-TIER COIL PROTECTION (clear)

PRODUCT SPECIFICATION SHEET

Product Characteristics

Aqua Aero (AA) High-Tier Coil is a coating system that gives a lifetime corrosion protection to full aluminum microchannel coils and round tube plate fin coils in severe corrosive exposures. The coating can be applied by spraying, dipping or flowing. For High-Tier exposures an extra layer of self-crosslinking AA Multi Coat is added. Without any smell or environmental restrictions, the AA High-Tier coating system can be applied to HVAC&R units inside an OEM plant, before installation or to installed HVAC&R units. The product is designed with leading OEM manufacturers to comply with their zero-emission footprint and non-hazardous off-gas emission statements. Aqua Aero is applied by 60+ applicators over the world to industrial, residential and commercial heat exchange equipment, installed in extreme corrosive conditions.

Product Components

The AA High-Tier coating system is based on modified acrylic waterborne binders with high elongation properties. The top coating is based on self-crosslinking acrylic binders to achieve extreme corrosion resistance. High-quality additives are added to establish heat transfer, chemical resistance and UV-blocking properties.

Product Application

The AA High-Tier coating system is suited for application on Al/Cu, Cu/Cu and microchannel heat exchangers. Aqua Aero licenses and trains their global applicators to ensure compliance with operational and quality manuals.

Test Reference	Title	Document Reference	Rating
ASTM B 117	20.000 hrs AL	LAB 20 410 REP	20.000 hrs
ASTM B 117	3.000 hrs on coil	VDP-NSA-ZAC-202304	3.000 hrs
ISO 12944-6	C5 High Regime	R230210	✓
ISO 870	Water Immersion Al	VDP-WIM-AA-202304	1.000 hrs
ISO 870	Water immersion Cu	VDP-WIM-AA-202308	1.000 hrs
ISO 870	Water Immersion Powdercoat	VDP-WIM-AA-202309	1.000 hrs
ASTM G-85-3	SWAAT > 5.000 hrs	R23017	> 5.000 hrs
ASTM B-287	Acetic Salt Spray	VDP-AA-CCD41-G85	4.000 hrs
ISO 6860	Flexibility Mandrel	VDP-CMT-AA-202304	pass 1/4 inch
ISO 1520	Flex, stretch Cupping test	VDP-ECT-AA-202303	✓
ASTM 3359	Cross Hatch adhesion Al	VDP-CHT-AA-202303	✓
ASTM 3359	Cross Hatch adhesion Cu	VDP-CHT-AA-202309	✓
ASTM 3359	Cross Hatch adhesion Powdercoat	VDP-CHT-AA-202308	✓
ISO 2813	Gloss Rate retention	VDP-GLO-AA-202301	85° sustains after SST
ISO 16474	UV A, B, C	2021140021 / 2022310012	1.000 hrs
(CFR21) Section 175.300	FDA Conformity	A2017-304052-001	✓