

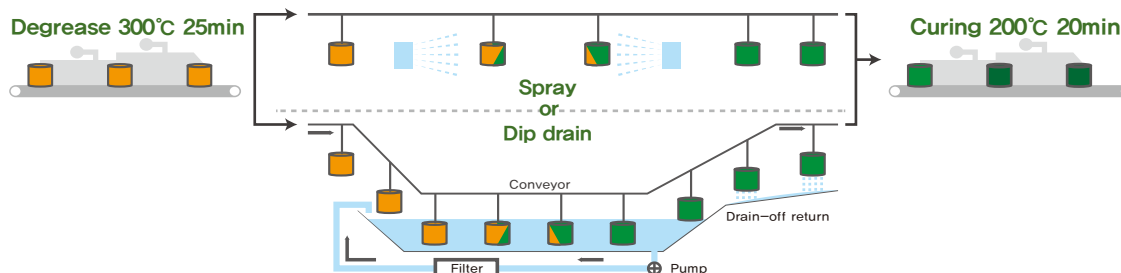


Non-ferrous metal corrosion protection. [Al, SUS, Mg, GI, EGI]

■ Characteristic

1. Several coating method : Spray, Dip spin, Dip drain.
2. Harmful VOCs-free, Heavy metal free coating agent No Cr6+/Cr3+.
3. Excellent corrosion resistance and durability in non-ferrous metals, SST 2,000 hours of performance when using HiGANiC on aluminium.
Inorganic color with excellent color retention and excellent durability.
4. Good workability
No pre-treatment of aluminium.(No Primer)
Use immediately after degreasing.

■ Coating process



1. Omit the pre-treatment of non-ferrous primer.
2. After degreasing, HiGANiC can be coated with spray, dip and dipspin.

■ Corrosion resistance

1. HiGANiC Corrosion resistance, Q-UV

	Before Test	After Test	
SST 2000hr			<p>HiGANiC KEMPZIN 2F2 Aluminum die-casting</p>
QUV 600hr			
			<p>SST 2000hr Good</p> <p>QUV 600hr ΔE 0.2 / Gloss 99%</p> <p>ROHS Pb, 25kind Undetected</p> <p>Coefficient of friction Dynamic 0.4 / Static 0.37</p> <p>Adhesion 5B</p> <p>Pencil hardness 4H</p> <p>Thermal conductivity 63.6 W/m.K</p>

2. HiGANiC vs Aluminium diecasting

	SST	0hr	24hr	48hr	72hr
Al + HiGANiC					
Al	SST				



Corrosion resistance	Aluminum material More than SST 2000hr
Eco-friendly	VOCs-Free, Heavy metal free
Coating method	Spray, Dip spin, Dipping
Curing	200°C 20min
Color	Gloss, Non-gloss, Semi-gloss, Pearl

■ Performances



Chemical resistance	All right	KSM ISO 2812-07
Q-UV	All right	KSM ISO 4892-03, KSA0066
Pollution resistance	All right	KSM 3802
Abrasion resistance	Less than 10mg	ASTM DR 4060-14
Impact Test	12N.M	ASTM D 2794-93
Salt Spray Test	1000hr All right	KSD 9502, ASTM B 117
Environment friendly	Not detected	Pb, Cd, Hg, Cr6+
Pencil Hardness Test	4H / 5H	ASTM_D3363

■ Application

Aluminum products anti-corrosion solution (Ex. Air conditioner unit etc)

1) Problem of air conditioner

The aluminium in the coil is corroded by salts and moisture in the air, harmful gases, ultraviolet rays, etc. Reduces machine performance and lifespan as a result of corrosion. Department phenomenon occurs in corrosion area and powder enters respiratory system etc.



AHU



Coil

2) HiGANiC-coated AHU aluminium coil

No white rust of Al coil. Energy cost saving.
Equipment performance improvement & durability extension.
Removing of unhealthy factor for human body.



3) EGI products requiring corrosion resistance.

EGI high corrosion color coating. HiGANiC has no XYLENE, toluene, or fluorine resin that causes environmental pollution. Depending on the performance of the EGI, the EGI high strength bolts can be 1,500 hr. The EGI screws have white rust at 820 hr.

