

zandleven coatings

AQUISIL® AMC-AL

polysiloxane

One component high-heat resistance silicon titanium-ester aluminium/graphite coating.

- Excellent adherence on pre-blasted or chemical pre-treated stainless steel. and on blasted steel.
- Temperature resistance from –200°C up to +600°C.
- Good resistance against a warming-up speed of 60°C per minute.
- After normal (physical) hardening, good removable and outdoor resistance.
- Drying and hardening will take place at roomtemperature
- Optimal hardening and resistance will be bobtained after thermal curing above 120°C.
- To apply in 2 or 3 layers with a minimum film thickness of 100 μm.
- Maximum exceeding of film thickness: 50%.
- No free silicone part, no silicone contamination

Application in chemical and/or maritime (containing chloride) environment on steel and stainless steel machinery, ovens, pipelines etc. for the prevention of stress corrosion.

Product information

Finish	Metal gloss		
Color	Light-Aluminium		
Mass density	approx. 1.55 kg/L		
Solids content by volume	approx. 56 volume %		
VOC	approx. 350 gr./L (volatile organic compound)		
Recommended film thickness	Brush application: 3 layers of 35 µm d.f.t. 60 µm w.f.t.		
	Spray application: 2 layers of 50 μ m d.f.t. 90 μ m w.f.t. Above mentioned film thickness shouldn't be exceeded by more than 50%.		
Theoretical spreading rate	At 35 μm d.f.t. 16.0 m²/L At 50 μm d.f.t. 11.2 m²/L		
Practical spreading rate	Depending on several factors like shape of object, profile of surface, method of application, application circumstances and experience. A few guiding principles are:		
	Brush/roller	85-90% of the theoretical spreading rate	
	Spraying	50-70% of the theoretical spreading rate	
Flashpoint ISO 1523	Paint	30°C	
	Thinner BB 55	28°C	
Dry temperature resistance	-200°C up to +600°C		
Shelf life	Material should be stored in a dry, shaded environment away from		
	heat & ignition sources. Do not allow material to freeze. Shelf life		
	is minimum 12 months at 23°C.		



Drying times					
For d.f.t. up to 75 μm	30°C	20°C	10°C		
Dust dry	20 minutes	45 minutes	75 minutes		
Manageable	16 hours	24 hours	36 hours		
Heat load	3 days	5 days	7 à 10 days		
Recoatable:					
Minimum interval	5 hours	7 hours	24 hours		
Maximum interval	Unlimited, provided th	Unlimited, provided that the surface is clean and dry.			
	Film thickness, ventila	Film thickness, ventilation, temperature and relative humidity are of			
	great influence on the	great influence on the drying times.			
Application of the isolation	After 48 hours after th	e last layer has dried.			
	page 1 of 3		protective coatings		
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Application instructions

Application conditions	During the application and the hardening the temperature should be above 5°C. The surface should remain dry and the temperature of the surface should at least be 3°C above dew point. During application and hardening in closed or small spaces, it is necessary to refresh the air continually to remove the solvent vapours, this because of drying, health and safety.				
Usage information	Airless-spray	Airspray	Brush/roller		
Type of thinner	BB 55	BB 55	BB 55		
Recommended thinner (depending on application and equipment)	0 – 5 vol. %	5 – 10 vol. %	0 – 5 vol. %		
Nozzle orifice	0.38 – 0.43 mm 0.015 – 0.017 inch	1.8 – 2.2 mm			
Nozzle pressure	140 – 160 bar	3 – 4 bar			
Maximum attainable d.f.t.	75 μm	75 μm	50 μm		
Cleaning of tools	Thinner BB 55				
Surface conditions Steel	New steel: Blast according to the ISO norm 8501-1:2007 Sa $2\frac{1}{2}$. Roughness profile Ra 6-10 μm Rz 30-50 μm . Surface should be clean and dry.				
Stainless steel	 New stainless steel: Blast with a fine, non-metallic blasting medium until a level roughened surface is obtained or degrease the surface with a suitable thinner and etch the surface according instruction chemical supplier Do no touch the pretreated surface with bare hands. Primer: Apply Aquisil AMC-AL directly on the pre-treated surfaces. Repair and maintenance: Clean the surface thoroughly with a suitable cleaning preparation or by steam cleaning. 				
	Remove salts and other water soluble impurity by spraying with clean tap-water under high pressure.				
	Remove rust a.o. by (water)blasting Sa 2½ or derust mechanical until S in accordance with ISO 8501-1:2007.				
	Apply the advised paint system on a clean surface.				

- Mechanical or hand derusting gives less quality than (water)blasting and will result in less protection of the applied paint system. .
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Ventilation precaution	Minimum required quantity of air to comply with:				
-		IOELV(EU)	10 % LEL		
	Aquisil AMC-AL	1200 m ³ /L	77 m³/L		
	Thinner BB 55	3935 m³/L	167 m³/L		
	IOELV = Indicative Occupational Exposure Limit Values				

LEL = Lower Explosion Limit

Also consult the security information sheets

Additional and applicable information (www.zandleven.com)

- General guidelines
- Material Safety Data Sheet
- information curing agents en thinners
- Color surcharge
- General terms and conditions of delivery



These data have been drawn up to the best of our knowledge and were correct at the date of issue. However we cannot accept full responsibility, because de choice of products and circumstances during elaboration of the systems fall outside our judgement. This documentation sheet will not automatically be replaced in case of modification.

The English language text is a translation. In case of doubt the Dutch language original text has to be consulted as the authoritative text.