

PRODUCT DATA SHEET

ECOMET CORUNDUM

Chromium free Zn-Aluminium flake coating system with integral lubricant as per ISO - 10683 -2018 for metal corrosion protection.

PHYSICAL PROPERTIES	Units	
Colour		SILVER GREY
Theoretical coverage	m ² /kg/10 μ	10-12
Viscosity (Zhan Cup 2)	Seconds	40-50
Solids (By Weight)	%	55 - 60
Density	Gms/cc	1.30 +/- 0.05
Flash point	°C	30
COF Values ISO 16047		0.12 - 0.18 μtot
Chrome Content		N.A.

APPLICATION

<u>Substrate</u>	Any metal substrate except high copper containing alloys
<u>Surface preparation</u>	The substrate must be dry and free from dust and grease. Acidic/basic impurities and particularly salts must be avoided.
<u>Possible Pre-treatment phosphate</u>	Degreasing, blasting with proper blasting mediums, fine-crystalline zinc
<u>Application Method</u>	Dip / Spin, Dip, Spray etc.
<u>Filtration</u>	100 mesh stainless steel Sieve
<u>Application viscosity</u>	40 - 45 sec. on Zhan cup 2 for Dip-spin & 25 - 30 for Spray application.
<u>Recommended DFT</u>	8-12 μ
<u>Thinner</u>	Ecomet Solvent 2755 UT
<u>Thinner addition</u>	1 - 2 % by weight
<u>Flash Off</u>	5-10 min. at 100-120°C. If humidity is high, put in oven immediately.
<u>Curing (metal temp.)</u>	10 - 30 min. at 200 - 220 °C

- Physical constants are averages and are not to be used as product specifications. They may vary up to 5 % of the values shown are specifications representative for the process capability.
- Storage life is 12 months at 20-25°C
- For more information on health & safety refer to the Material safety data sheet for handling and applying.

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SUMMMARY

ECOMET CORUNDUM Coating Test

PHYSICAL TESTS OF LIQUID PAINT

#	Name of Test	Procedure	Results	Comment
1.	Viscosity	By Zhan cup no 2	40-50 seconds	
2.	Solid Content	By weight	55-60%	

AFTER APPLICATION ON SUBSTRATE: PHYSICAL TESTS

#	Name of Test	Procedure	Results	Comment
1.	Thickness		8-12 micron	By Fischer Dual scope
2.	Adhesion	ISO-10683	Pass	7Nm/12mm2
3.	Hardness of Film	Pencil Test	>5 H	

AFTER APPLICATION ON SUBSTRATE: CHEMICAL TESTS

#	Name of Test	Procedure	Results	Comment
1.	MEK	20 Rub	Pass	
2.	With Alkali 12pH	Dip	Pass 24 hours	
3.	Acid test -2PH	Dip	Passes (30 Seconds)	
4.	Oil and Fuel Tests	Dip	Pass	
5.	Water Boiling 96 hours	95 deg c	Pass	No rust to coating
6.	Pressure Steam Test 24 hour	95 deg c	Pass	No rust to coating

AFTER APPLICATION ON SUBSTRATE: PERFORMANCE TESTS

#	Name of Test	Procedure	Results	Comment
1.	SST	ASTM B117	Pass 2000 hour	Test Stopped
2.	Damru Test (to check handling damages)	100 times shaking	Pass	Damage check
3.	5 times torquing	ISO16047	Pass 1200-hour SST	SST After 5 times torquing
4.	COF test	ISO16047	Pass	
5.	Drilling into ACQ wood	2 times	Pass SST 600 hours	Test for self-drilling screws
6.	Coating scrubbing by sharp knife (removal of layer)	5mmX50MM area	Pass SST over 600 hour	Test for handling and assembly damages
7.	Deep Cut by Paper cutter (to check self-healing)	Forceful manual deep cut metal	No red rust after 1200 hours	Self-Healing

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