

Product Data Sheet

ECOMET CORUNDUM

INDUSTRIAL COATINGS

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

PHYSICAL PROPERTIES	Units	ECOMET CORUNDUM
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

Substrate	Any metal substrate except high copper containing alloys
Surface preparation	The substrate must be dry and free from dust and grease. Acidic/ basic impurities and particularly salts must be avoided.
Possible Pre-treatment	Degreasing, blasting with proper blasting mediums, fine-crystalline zinc phosphate
Application Method	Dip / Spin, Dip, Spray etc.
Filtration	100 mesh stainless steel Sieve
Application viscosity	40 – 45 sec. on Zhan cup 2 for Dip-spin & 25 – 30 for Spray application.
Recommended DFT	8-12 μ
Thinner	Ecomet Solvent 2755 UT
Thinner addition	1 – 2 % by weight
Flash Off	5-10 min. at 100-120°C. If humidity is high, put in oven immediately.
Curing (metal temp.)	10 – 30 min. at 220 – 250 °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 Material safety data sheet for handling and applying.
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ECOMET CORUNDUM Coating Test Summery

PHYSICAL TESTS OF LIQUID PAINT

No	Name of Test	Procedure	Results	Comment
01	Viscosity	By Zhan cup no 2	40-50 seconds	
02	Solid Content	By weight	55-60%	

AFTER APPLICATION ON SUBSTRATE: PHYSICAL TESTS

No	Name of Test	Procedure	Results	Comment
01	Thickness		8-12 micron	By Fischer Dual scope
02	Adhesion	ISO-10683	Pass	7Nm/12mm ²
03	Hardness of Film	Pencil Test	>5 H	

AFTER APPLICATION ON SUBSTRATE: CHEMICAL TESTS

No	Name of Test	Procedure	Results	Comment
01	MEK	20 Rub	Pass	
02	With Alkali 12pH	Dip	Pass 24 hours	
03	Acid test -2PH	Dip	Passes (30 Seconds)	
04	Oil and Fuel Tests	Dip	Pass	
05	Water Boiling 96 hours	95 deg c	Pass	No rust to coating
06	Pressure Steam Test 24 hour	95 deg c	Pass	No rust to coating

AFTER APPLICATION ON SUBSTRATE: PERFORMANCE TESTS

No	Name of Test	Procedure	Results	Comment
01	SST	ASTM B117	Pass 2000 hour	Test Stopped
02	Damru Test (to check handling damages)	100 times shaking	Pass	Damage check
03	5 times torquing	ISO16047	Pass 1200-hour SST	SST After 5 times torquing
04	COF test	ISO16047	Pass	
06	Drilling into ACQ wood	2 times	Pass SST 600 hours	Test for self-drilling screws
07	Coating scrubbing by sharp knife (removal of layer)	5mmX50MM area	Pass SST over 600 hour	Test for handling and assembly damages
08	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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