



Since 2008

EFFCO

Smart Coating Technology

Product Data Sheet

ECOMET 500

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 500
Colour		SILVER
Theoretical coverage	m ² /kg/10 μ	10-12
Viscosity (Zhan Cup 2)	Seconds	100-200
Solids (By Weight)	%	33±3
Density	Gms/cc	1.35±0.1gm/cm ³
Flash point	°C	>100
COF Values ISO 16047		0.12 – 0.18 μtot
Chrome Content		None

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 media (special grade SS shots.)
Application Method	Dip / Spin, Dip, Spray etc.
Filtration	100 mesh stainless steel Sieve
Application viscosity	80 -100 sec. on Zhan cup 2 for Dip-spin & 50 –60 for Spray application.
Recommended DFT	8-12 μ
Thinner	DM Water
Thinner addition	Add 2 -3 % Water if required
Flash Off	5-15 min.
Curing (metal temp.)	25 – 30 min. at 330 °C ± 10 Object Temp..
Temp. of Coating Material	Min.15 to max 40°C
Room Temp. (ambient Temp.)	Min.15 to max 40°C
Ideal Humidity	35 to 65 % RH
Storage Stability	One Month After Preparation of Paint.

- 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.
- For more information on health & safety refer Material safety data sheet for handling and applying

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ECOMET 500

Coating Test Summery

PHYSICAL TESTS OF LIQUID PAINT

No	Name of Test	Procedure	Results	Comment
01	Viscosity	Zhan Cup no 2	100-200 Seconds	
02	Solid Content	By weight	33+-3%	
03	pH		5-7	

AFTER APPLICATION ON SUBSTRATE: PHYSICAL TESTS

No	Name of Test	Procedure	Results	Comment
01	Coating Layer Thickness		8-12 Micron	By Thickness gauge
02	Adhesion	ISO-10683	Pass	7Nm/12mm ²
03	Hardness of Film	By pencil	>4 H	

AFTER APPLICATION ON SUBSTRATE: CHEMICAL TESTS

No	Name of Test	Procedure	Results	Comment
01	MEK	20 Rub	Pass	
02	Automotive Oil and Fuel Tests	Dip	Pass	

AFTER APPLICATION ON SUBSTRATE: PERFORMANCE TESTS

No	Name of Test	Procedure	Results	Comment
01	SST	ASTM B117	Pass 1000 hour	
02	COF Test	ISO16047	0.15 +/- 0.03 tot	
03	Heat Resistance	300 deg c for 96 hours	500 hours SST	

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