



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

ECOMET 500

Coating Test Summery

PHYSICAL TESTS OF LIQUID PAINT

No	Name of Test	Procedure	Results	Comment
01	Viscosity	Zhan Cup no 2	100-150 Second	
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/12mm2
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 1500 hour	
02	COF Test	ISO16047	0.15tot	
03	Heat Resistance	300 deg c for 96 hours	600 hours SST	