



Since 2008

EFFCO

Smart Coating Technology

Product Data Sheet

ECOMET TOP CLEAR

INDUSTRIAL COATINGS

PHYSICAL PROPERTIES	Units	A	B
Colour		Clear	Clear
Theoretical coverage	m ² /kg/ 3 μ	20-22	20-22
Viscosity (Zhan Cup 2)	Seconds	25-30	25-30
Solids (By Weight)	%	40-42	40-42
Density	Gms/cc	1.06+/- 0.05	1.06+/- 0.05
Flash point	°C	> 100°C	> 100°C
COF Values ISO 16047		0.17 – 0.19	0.08 – 0.10

APPLICATION

Substrate	Any metal substrate except high copper containing alloys
Surface preparation impurities and	Substrate must be dry and free from dust and grease. Acidic/ basic particularly salts must be avoided.
Possible Pre-treatment	Zinc/Al flake Basecoats, Electroplating etc.
Application Method	Dip / Spin, Dip, Spray etc.
Filtration	200 mesh stainless steel Sieve
Application viscosity	As Supplied
Recommended DFT	2-3 μ
Thinner	D.M. Water
Thinner addition	None, if required add 1 – 2 % D.M. Water.
Flash Off	5-10 min. at 100-120°C. If humidity is high, put in oven immediately.
Curing (metal temp.)	30 min. at 150 °C + / - 10°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 Top Clear Coating Test Summery

Recommended Base Coat:

- Acid Zinc Plating
- Alkaline Zinc Plating
- ECOMET Corundum
- ECOMET 500
- ECOMET CDG

PHYSICAL TESTS OF LIQUID PAINT

No	Name of Test	Procedure	Results	Comment
01	Viscosity	By Zhan Cup no 2	25-30 seconds	
02	Solid Content	By weight	40 +-2%	
03	pH	pH meter	8 - 9	

AFTER APPLICATION ON SUBSTRATE: PHYSICAL TESTS

No	Name of Test	Procedure	Results	Comment
01	Coating Layer Thickness		3-5 Micron	By Thickness gauge
02	Adhesion	ISO-10683	Pass	7Nm/12mm2
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	Automotive Oil and Fuel Tests	Dip	Pass	
03	Acid test – 2PH	Dip	Passes (30 Seconds)	

AFTER APPLICATION ON SUBSTRATE: PERFORMANCE TESTS

No	Name of Test	Procedure	Results	Comment
01	SST	ASTM B117	500 Hours	Additional to Basecoat
02	ECOMET Top Clear	COF Test ISO16047	0.15 +/- 0.03 tot	Others on Request

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