



Since 2008

**EFFCO**

Smart Coating Technology

## Product Data Sheet

### ECOMET TOP BLACK

#### INDUSTRIAL COATINGS

These water-based sealer topcoat products can be applied with Non Electrolytically applied Dip Spin or Spray coating techniques for mass produced hardware parts. Other Application techniques can be used such as Dip Drain, Dip centrifuge or spray etc.

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PHYSICAL PROPERTIES	Units	ECOMET TOP BLACK
Colour		Black -Semi Glossy
Theoretical coverage	m <sup>2</sup> /kg/10 μ	20-25
Viscosity (Zhan Cup 2)	Seconds	35-45
Solids (By Weight)	%	40±2
Density	Gms/cc	1.10 +/- 0.1
Flash point	°C	100
COF Values ISO 16047	μtot	0.16 -0.18
Chrome Content		N.A.

#### APPLICATION

Substrate	Alloy and unalloyed steel, other on request
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 Electro plating etc.
Application Method	Dip / Spin, Dip, Spray etc.
Filtration	150 mesh stainless steel Sieve
Application viscosity	25 – 30 sec. on Zhan cup 2 for Dip-spin & 20 – 25 for Spray application.
Recommended DFT	8-12 μ
Addition	DM Water
Addition of DM Water	4 -5 % by weight
Flash Off	5-10 min.
Curing (metal temp.)	15 – 30 min. at 200 ± 10°C object temp.

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- 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

# ECOMET Top Black Coating Test Summery

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## Recommended Base Coat:

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

## PHYSICAL TESTS OF LIQUID PAINT

No	Name of Test	Procedure	Results	Comment
01	Viscosity	By Zhan Cup no 2	35-45 second	
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		3-6 Micron	By Thickness gauge
02	Adhesion	ISO-10683	Pass	7Nm/12mm <sup>2</sup>
03	Hardness of Film	Pencil Test	>4 H	

## AFTER APPLICATION ON SUBSTRATE: CHEMICAL TESTS

No	Name of Test	Procedure	Results	Comment
01	Automotive Oil and Fuel Tests	Dip	Pass	

## AFTER APPLICATION ON SUBSTRATE: PERFORMANCE TESTS

No	Name of Test	Procedure	Results	Comment
01	SST	ASTM B117		
02	COF Test	ISO16047	0.15tot	Others on request