

# **PRODUCT DATA SHEET**

## **ECOMET TOP COPPER**

These Organic topcoats can be applied over Zinc plating and Zinc/Aluminium flake-based Basecoats. Application techniques can be used as Dip-Spin for mass produced small hardware's, Screws and Conventional spray for larger parts.

PHYSICAL PROPERTIES	Units	
Colour		Copper
Theoretical coverage	m2/kg/10 μ	15 - 20
Viscosity (Zhan Cup 2)	Seconds	40 - 50
Solids (By Weight)	%	40 ± 3
Density	Gms/cc	1.10 +/- 0.1
Flash point	°C	>100
COF Values ISO 16047	μtot	0.12 - 0.18
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 / Basecoat	Zinc/Al flake-based Basecoats, Electroplating etc.	
Application Method	Dip / Spin, Dip, Spray etc.	
Filtration	150 mesh stainless steel Sieve	
Application viscosity	tion viscosity 25 - 30 sec. on Zhan cup 2 for Dip-spin & 18 - 20 for Spray applicat	
Recommended DFT	8-12 μ	
Addition	DM Water	
Addition of DM Water	5 - 10 % by weight	
Flash Off	5-10 min. at 100-120°C.	
Curing (metal temp.)	25 - 30 min. at 200 - 220 °C .	

<sup>-</sup> 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.

<sup>-</sup> Storage life is 12 months at 20-25°C. For more information on health & safety refer Material safety data sheet for handling and applying.





## **SUMMMARY**

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Coating Test

#### Recommended Base Coat:

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

#### PHYSICAL TESTS OF LIQUID PAINT

#	Name of test	Procedure	Results	Comment
1.	Viscosity	By zhan cup no 2	40 - 50 seconds	
2.	Solid Content	By weight	40 +/- 3 %	
3.	рН	pH meter	8 - 9	

#### AFTER APPLICATION ON SUBSTRATE: PHYSICAL TESTS

#	Name of test	Procedure	Results	Comment
1.	Coating Layer Thickness		6 - 8 Micron	By Thickness gauge
2.	Adhesion	ISO-10683	Pass	7Nm/12mm2
3.	Hardness of Film	Pencil Test	> 4 H	

#### AFTER APPLICATION ON SUBSTRATE: CHEMICAL TESTS

#	Name of test	Procedure	Results	Comment
1.	Automotive Oil and Fuel Tests	Dip	Pass	

## AFTER APPLICATION ON SUBSTRATE: PERFORMANCE TESTS

#	Name of test	Procedure	Results	Comment
1.	SST	ASTM B117	500 Hours	Additional to base coat
2.	COF Test	ISO16047	0.15 +/- 0.03 tot	Others on request

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