

## PRODUCT DATA SHEET

### ECOMET TOP SILVER

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 and Conventional spray for larger parts.

PHYSICAL PROPERTIES	Units	
Colour		Silver Grey
Theoretical coverage	m <sup>2</sup> /kg/10 μ	15-20
Viscosity (Zhan Cup 2)	Seconds	35-45
Solids (By Weight)	%	35 ± 2
Density	Gms/cc	1.10 +/- 0.1
Flash point	°C	>100
COF Values ISO 16047	μtot	0.12 - 0.18

### APPLICATION

<b>Substrate</b>	Any metal substrate except high copper containing alloys.
<b><u>Surface preparation</u></b>	The substrate must be dry and free from dust and grease. Acidic/basic impurities and particularly salts must be avoided.
<b><u>Possible Pre-treatment</u></b>	<u>Zinc/Al flake-based Basecoats, Electroplating etc.</u>
<b>Application Method</b>	Dip / Spin, Dip, Spray etc.
<b>Filtration</b>	150 mesh stainless steel Sieve
<b>Application viscosity</b>	25 – 30 sec. on Zhan cup 2 for Dip-spin & 18 – 20 for Spray application.
<b>Recommended DFT</b>	8-12 μ
<b>Addition</b>	DM Water
<b>Addition of DM Water</b>	5 - 10 % by weight
<b>Flash Off</b>	5-10 min. at 100-120°C.
<b>Curing (metal temp.)</b>	15 - 30 min. at 200 - 220 °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.

## SUMMMARY

### ECOMET TOP SILER

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	35-45 seconds	
2.	Solid Content	By weight	35 +/- 2%	
3.	pH	pH meter	8-9	

#### AFTER APPLICATION ON SUBSTRATE: PHYSICAL TESTS

#	Name of Test	Procedure	Results	Comment
1.	Coating Layer Thickness		4-6 Micron	By Thickness gauge
2.	Adhesion	ISO-10683	Pass	7Nm/12mm <sup>2</sup>
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	
2.	Acid test – 2PH	Dip	Passes (30 Seconds)	

#### 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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