

Product Data Sheet

ECOMET TOP SILVER

INDUSTRIAL COATINGS

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 | ECOMET TOP SILVER |
|------------------------|-------------------------|-------------------|
| Colour | | Silver Gray |
| Theoretical coverage | m ² /kg/10 μ | 15-20 |
| 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 | 0.15 – 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 | Zinc Plating, Zinc/Al Flake Coated Base Coat 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 & 18 – 20 for Spray application. |
| 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. If humidity is high, put in oven immediately. |
| Curing (metal temp.) | 30 min. at 220 °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

ECOMET Top Silver Coating Test Summery

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 | | 4-6 Micron | By Thickness gauge |
| 02 | Adhesion | ISO-10683 | Pass | 7Nm/12mm2 |
| 03 | Hardness of Film | Pencil Test | >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 | 500-1000 | Additional to base coat |
| 02 | COF Test | ISO16047 | 0.15tot | Others on request |