

Product Data Sheet

ECOMET TOP CLEAR

INDUSTRIAL COATINGS

| PHYSICAL PROPERTIES | Units | A | B | C | D |
|-------------------------|-------------------------|----------------|----------------|--------------|--------------|
| Colour | | Clear (Glossy) | Clear (Glossy) | Clear (Matt) | Clear (Matt) |
| Theoretical coverage | m ² /kg/ 3 μ | 20-22 | 20-22 | 20-22 | 20-22 |
| Viscosity (Zhan Cup 2) | Seconds | 25-30 | 25-30 | 20-25 | 20-25 |
| Solids (By Weight) | % | 40-42 | 40-42 | 34-36 | 34-36 |
| Density | Gms/cc | 1.06+/- 0.05 | 1.06+/- 0.05 | 1.07+/- 0.05 | 1.07+/- 0.05 |
| Flash point | °C | > 100°C | > 100°C | > 100°C | > 100°C |
| COF Values ISO 16047 | | 0.17 – 0.19 | 0.08 – 0.10 | 0.17 – 0.19 | 0.08 – 0.10 |

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 | Degreasing, blasting with proper blasting mediums, fine-crystalline zinc phosphate, Electroplating etc. |
| Application Method | Dip / Spin, Dip, Spray etc. |
| Filtration | 200 mesh stainless steel Sieve |
| Application viscosity | As Supplied |
| Recommended DFT | 2-3μ |
| 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

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 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 | | 3-5 Micron | By Thickness gauge |
| 02 | Adhesion | ISO-10683 | Pass | 7Nm/12mm ² |
| 03 | Hardness of Film | Pencil test | >6 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 |
| 02 | ECOMET Top Clear | COF Test ISO16047 | 0.15 tot | Others on Request |