## **TEST OBSERVATION OF ZINC FLAKE COATED FASTENRS**

Coating Trial Date: Rep.No:

Fasteners Coated:- Bolt Date:- 19/03/2021

Coating Material:- ECOMET 500 LC ( 2 Coat) + ECOMET TOP CLEAR B (1 Coat)



| SrNo. | Test                         | Requirement  | Specified<br>Hrs. | Observation  | Before                      | After                       | Remark |
|-------|------------------------------|--|-------------------|--|-----------------------------|-----------------------------|--------|
| 1     | Resistance to<br>Engine Oil  | Partially<br>immerse15W40<br>OIL AT 90<br>°C for 72 hrs.no<br>softning/ dulling of<br>coating                              | 72h               | No significant<br>softening, blister,<br>spots & other<br>effects on coated<br>parts | Engine oil Test<br>BeFore . | Engine oil Test after.      | ОК     |
| 2     | Resistance to gear Oil       | Partially immerse<br>80W90 Oilat 80°C<br>for 48 hrs.no<br>softening/ dulling<br>ofcoating                                  | 48h               | No significant<br>softening, blister,<br>spots & other<br>effects on coated<br>parts | Glear oil Test<br>Before.   | Clear oil Test<br>After.    | ОК     |
| 3     | Resistance to<br>Brake fluid | Partially immerse<br>inBrake fluid for 24<br>hrs.no softening/<br>dulling of coating                                       | 24h               | No significant<br>softening, blister,<br>spots & other<br>effects on coated<br>parts | Break oil test<br>Before    | Breek oil test<br>After     | ОК     |
| 4     | Resistance to<br>Diesel      | Partially immerse<br>inPetrol/Diesel for<br>24hrs.no<br>softening/ dulling<br>of coating                                   | 24h               | No significant<br>softning, blister,<br>spots & other<br>effects on coated<br>parts  | Before                      | Diesel Test After           | ОК     |
| 5     | Resistance to petrol         | Partially immerse<br>inPetrol/Diesel for<br>24hrs.no<br>softening/ dulling<br>of coating                                   | 24h               | No significant<br>softening, blister,<br>spots & other<br>effects on coated<br>parts | Petrol test Before.         | petrol Test<br>After.       | ОК     |
| 6     | Resistance to<br>Antifreeze  | Partially immerse in<br>50:50 mixture of<br>water and ethylene<br>Glycol for 96 hrs.no<br>softening/ dulling<br>of coating | 96h               | No significant<br>softening, blister,<br>spots & other<br>effects on coated<br>parts | Anti Freeze Test            | Anti Forceze Test<br>After  | ОК     |
| 7     | Resistance to<br>D I Water   | Partially immerse<br>inDI Water for 240<br>hrs.no softening/<br>dulling of coating   | 240h              | No significant<br>softening, blister,<br>spots & other<br>effects on coated<br>parts | Before                      | DI Water Test<br>AFter.     | ОК     |
| 8     | Resistance to temperature    | Fasteners heated<br>to150 °C for 3 hrs.<br>NO visible changes<br>on coated parts   | 3h                | No visible<br>changes & other<br>effect oncoated<br>parts                            | Temperatur resistance rest  | Temperature resistance Text | ОК     |

Remark: Test done on the sample confirm to the requirements as per G 00 1392

