



## 0- Series Exterior Powder Coatings (Matt)

KwoLin 0-Series are polyester powder coatings. They can be applied on metal as protective paint, while they can be used indoors and outdoors.

### Application and Storage Conditions:

- Oil, grease and rust should be removed by degreaser. Then zinc phosphate pretreatment is recommended for optimum performance.
- Use the electrostatic spray gun to application on substrates.
- The film should be cure on metal temperature at 200°C for 15 minutes.
- Film thickness should be controlled at 60~90  $\mu\text{m}$  for high performance.
- Shelf life is six months when stored in dry conditions at 25°C.

### Products Properties:

| Test items               | Test method                            | Results               |
|--------------------------|----------------------------------------|-----------------------|
| 1. Specific gravity      | By calculate                           | 1.4 $\pm$ 0.3         |
| 2. Impact resistance     | ASTM D2794                             | 30kg. cm, no remove   |
| 3. Pencil hard           | ASTM D3363                             | H                     |
| 4. Cross hatch adhesion  | ASTM D3359, method B                   | 5B                    |
| 5. Salt spray resistance | ASTM B117, 400hrs                      | No removed            |
| 6. Acid resistance       | In 5% $\text{H}_2\text{SO}_4$ , 24hrs  | No removed, no bubble |
| 7. Base resistance       | In 5% $\text{Na}_2\text{CO}_3$ , 24hrs | No removed, no bubble |
| 8. UV exposure           | ASTM G154(Cycle 1), 400hrs             | Gloss retain >50%     |
| 9. Boiled resistance     | Boil for 20 minutes                    | No removed, no bubble |

### Tests were performed on Q-Panel AL36

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