國麗實業
股份有限公司
KWOLIN

U-Series Polyurethane Metallic Powder Coatings

Kwo Lin U-Series metallic powder coatings are made of high durable polyurethane polyester, which owns excellent weatherability, salt resistance, humidity resistance, high glossiness, and metallic effect. It is not essential to paint white or black primer on workpieces because the content of pigment and metal powder is high with excellent opacity. However, although the metal powders are made of super durable materials, it is still vulnerable to environmental weathering or artificial scratches because the aluminum metal powders float on the paint surface. There are doubts about its damage and scratches. For the better protection and metallic effect, it is recommended to add clear top coat for protection.

Application and Storage Conditions:

- Oil, grease and rust should be removed by degreaser. The aluminum needs to be treated with chromium-based film, while the iron needs to be pretreated with zinc phosphate 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 70~100 ㎛ for high performance.
- Shelf life is 12 months when stored in dry conditions at 20°C.

Products Properties:

Test items	Test method	Results
1. Specific gravity	By calculate	1.4 ± 0.3
2. Impact resistance	ASTM D2794	25kg. cm, no remove
3. Pencil hard	ASTM D3363	H
4. Cross hatch adhesion	ASTM D3359, method B	5B
5. Salt spray resistance	ASTM B117, 2000hrs	No removed
6. Acid resistance	In 5%H_2SO_4, 24hrs	No removed, no bubble
7. Base resistance	In 5%Na_2CO_3, 24hrs	No removed, no bubble
8. UV exposure	ASTM G154(Cycle 1), 2000hrs	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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