



## SP-Series Super Durable Metallic Powder Coatings

KwoLin SP-series metallic powder coatings are made of super durable 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  $\mu\text{m}$  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	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, 3000hr	No removed
6. Acid resistance	In 5% $\text{H}_2\text{SO}_4$ , 24hr	No removed, no bubble
7. Base resistance	In 5% $\text{Na}_2\text{CO}_3$ , 24hr	No removed, no bubble
8. UV exposure	ASTM G154(Cycle 1), 2000hr	Gloss retain >50%
9. Boiled resistance	Boil for 20 minutes	No Removed, no bubble

### Tests were performed on Q-Panel AL36

Disclaimer: This product data sheet is based on our knowledge and on current laws. The data referring to powder properties, application data and physical tests is based on lab-based samples. The highest quality powder coating finish results from proper substrate surface preparation, appropriate pretreatment, effective rinse stages, proper powder coating application and enough temperature and dwell to ensure the powder coating is cured. Factors such as quality or cure condition of the substrate may influence the use and application of the product. It remains the responsibility of the user to test thoroughly if the product is applicable for the intended use. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. We are not liable for any application-technological advice.

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