# Technical Data Sheet

## Wayncor® 224 – Zinc Phosphosilicate

Wayncor ® 224 is a white non-refractive, corrosion inhibitive pigment used in protective coatings systems. It is compatible with a wide assortment of commercially available resin systems. It can provide an economic alternative to standard grade zinc phosphate. Performance can vary depending upon choice of resin system, but in general the use level would be between 3 – 10% total formula weight.

| Characteristic | Test Method | Typical Value |
|---|---|---|
| Appearance | | White powder |
| Zinc as ZnO [%] | | 31 - 33 |
| Phosphate as $P_2O_5$ [%] | | 17 - 19 |
| Silicate as $SiO_2$ [%] | | 25 - 27 |
| Calcium as CaO [%] | | 23 - 25 |
| Specific Gravity | ASTM D-153 | 2.90 |
| Bulking Value [gal/lb] [l/kg] | | 0.041 0.345 |
| pH | ASTM D-1208 | 7.0 – 9.0 |
| Conductivity [micro-Siemens] | ASTM D-2448 | < 150 |
| Moisture at 110 ºC [%] | ASTM D-280 | 5.0 Max |
| Loss on Ignition 600ºC [%] | | 10.0 Max |
| Oil Absorption [lbs/100 lbs] [kg/100kg] | ASTM D-281 | 25 - 40 |
| Apparent Bulk Density, Tapped [g/100 $cm^3$] | ASTM D-4164 | 45 - 75 |
| Fineness of Grind [Hegman Value] | ASTM D-1210 | 5.0 Min. |
| Mean particle size [microns] | Malvern Mastersizer | 6.9 |
| Water Soluble Chloride [%] | | < 0.02 |
| Water Soluble Sulfate [%] | | < 0.04 |
| Lead as Pb [ppm] | By Atomic Absorption | < 5.0 |
| Cadmium as Cd [ppm] | By Atomic Absorption | < 1.0 |

These are typical values and do not represent specifications.

| Suggested Applications |
|---|
| Short and Medium Oil Alkyds |
| Long Oil Alkyds |
| High Solids Alkyds |
| Epoxies – Solvent and Water |
| High Solids Epoxies |
| Polyurethanes 1K and 2K |
| Alkyd Emulsions |
| Epoxy Dispersions |
| Acrylics and Modified Acrylics |
| Hybrids |
| Baking Enamels |
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Performance in other coating systems has not been evaluated.



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